| | | | | | DEPARTMENT | OF NA | OF UTAH TURAL RESC GAS AND MII | | | | AMEN | FO DED REPOR | RM 3 | |
|------------------------------------------------------------------------------------------|------------------------------|--------------------|----------------|---------|--------------------------------------------|---------|---------------------------------------------------|----------|-------------|-----------------------------------------------------|-----------------------|-----------------|----------|--------|
| | | AP | PLICATION F | OR PE | ERMIT TO DRILL | | | | | 1. WELL NAME and N | | 023-17K4E | s | |
| 2. TYPE O | F WORK | DRILL NEW WELL | REENTE | R P&A V | WELL DEEPEN | WELL [|) | | | 3. FIELD OR WILDCA | T NATURAL | . BUTTES | | |
| 4. TYPE O | F WELL | Ga | as Well (| coalbed | d Methane Well: NO | | | | | 5. UNIT or COMMUNITIZATION AGREEMENT NAME PONDEROSA | | | | |
| 6. NAME O | F OPERATOR | | | | S ONSHORE, L.P. | | | | | 7. OPERATOR PHONE | | | | |
| 8. ADDRES | SS OF OPERATO | OR . | | | over, CO, 80217 | | | | | 9. OPERATOR E-MAII | L | | | |
| | AL LEASE NUM | BER | F.O. BOX 17377 | | 1. MINERAL OWNERS | SHIP | | | | 12. SURFACE OWNER | | anadarko | _ | |
| | ., INDIAN, OR S | UTÚ37355 | | | FEDERAL IND | DIAN 🛑 |) STATE |) F | EE 💮 | - | DIAN 🛑 | STATE | ~~ | EE 🔘 |
| 13. NAME | OF SURFACE | OWNER (if box 12 = | = 'fee') | | | | | | | 14. SURFACE OWNER | R PHONE | (if box 12 | = 'fee') | |
| 15. ADDR | ESS OF SURFA | CE OWNER (if box | 12 = 'fee') | | | | | | | 16. SURFACE OWNE | R E-MAIL | (if box 12 | = 'fee') | |
| | N ALLOTTEE OI = 'INDIAN') | R TRIBE NAME | | | 8. INTEND TO COMM | | PRODUCTION | FROM | И | 19. SLANT | | | | |
| (II BOX 12 | = INDIAN) | | | | YES (Submit C | comming | ling Applicatio | n) N | 10 🔵 | VERTICAL DIF | RECTION | AL D H | IORIZONT | AL 🔵 |
| 20. LOCA | TION OF WELL | | | FOO | TAGES | QT | rr-qtr | s | SECTION | TOWNSHIP | R | ANGE | МЕ | RIDIAN |
| LOCATIO | N AT SURFACE | | 24 | 3 FNL | 1959 FEL | S | SWNE | | 17 | 10.0 S | 2: | 3.0 E | | S |
| Top of U | ppermost Prod | ucing Zone | 18 | 14 FSL | 2138 FWL | ٨ | NESW | | 17 | 10.0 S | 2 | 3.0 E | | S |
| At Total | Depth | | 18 | 14 FSL | 2138 FWL | ١ | NESW | | 17 | 10.0 S | 2: | 3.0 E | | S |
| 21. COUN | TY | UINTAH | | 2 | 2. DISTANCE TO NEA | | EASE LINE (Fe | eet) | | 23. NUMBER OF ACR | ES IN DR 19 | | IT | |
| | | | | | 5. DISTANCE TO NEA Applied For Drilling | | pleted) | POOL | | 26. PROPOSED DEPT | | TVD: 790 | 3 | |
| 27. ELEV | ATION - GROUN | D LEVEL | | 28 | 8. BOND NUMBER | | | | | 29. SOURCE OF DRIL | | | PPI ICAR | ı F |
| | | 5180 | | | | | 000291 | | | WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496 | | | | |
| String | Hole Size | Casing Size | Length | Weig | Hole, Casing | | Cement Info | | ion | Cement | | Sacks | Yield | Weight |
| Surf | 11 | 8.625 | 0 - 1970 | 28. | | | 0.2 | | | Type V | | 180 | 1.15 | 15.8 |
| | | | | | | | | | | Class G | | 270 | 1.15 | 15.8 |
| Prod | 7.875 | 4.5 | 0 - 8248 | 11. | 6 I-80 LT8 | &C | 12.5 | 5 | Pren | nium Lite High Strer | ngth | 260 | 3.38 | 12.0 |
| | | | | | | | | | | 50/50 Poz | | 1180 | 1.31 | 14.3 |
| | | | | | A | TTACH | IMENTS | | | | | | | |
| | VER | IFY THE FOLLO | WING ARE AT | ТАСН | IED IN ACCORDAN | ICE WIT | TH THE UTA | H OIL | L AND GAS | CONSERVATION G | ENERA | L RULES | | |
| w w | ELL PLAT OR M | AP PREPARED BY L | ICENSED SUR | EYOR (| OR ENGINEER | | COMPLETE DRILLING PLAN | | | | | | | |
| AF | FIDAVIT OF STA | TUS OF SURFACE | OWNER AGREE | MENT (| (IF FEE SURFACE) | | FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER | | | | | | | |
| ✓ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED) ✓ TOPOGRAPHICAL MAP | | | | | | | | | | | | | | |
| NAME Da | anielle Piernot | | | ТІТ | LE Regulatory Analysi | t | | | PHONE 720 | 929-6156 | | | | |
| SIGNATU | RE | | | DA | TE 09/24/2012 | | | \dashv | EMAIL danie | lle.piernot@anadarko. | com | | | |
| | BER ASSIGNED 047532090 | 0000 | | APF | PROVAL | | | | Bol | 20 gill | | | | |
| | | | | | | | | | Perm | it Manager | | | | |

Kerr-McGee Oil & Gas Onshore. L.P.

BONANZA1023-17K4BS

Surface: 2483 FNL / 1959 FEL SWNE BHL: 1814 FSL / 2138 FWL NESW

Section 17 T10S R23E

Uintah County, Utah Mineral Lease: UTU-37355

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. <u>Estimated Tops of Important Geologic Markers</u>: <u>Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations</u>:

| <u>Formation</u> | <u>Depth</u> | <u>Resource</u> |
|------------------|--------------|-----------------|
| Uinta | 0 - Surface | |
| Green River | 745' | |
| Birds Nest | 1,034' | Water |
| Mahogany | 1,519' | Water |
| Wasatch | 3,745' | Gas |
| Mesaverde | 5,709' | Gas |
| Sego | 7,903' | Gas |
| TVD | 7,903' | |
| TD | 8,248' | |

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Drilling Program

4. <u>Proposed Casing & Cementing Program:</u>

Please refer to the attached Drilling Program

5. <u>Drilling Fluids Program</u>:

Please refer to the attached Drilling Program

Evaluation Program:

Please refer to the attached Drilling Program

7. **Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 7903' TVD, approximately equals 5,058 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,308 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please refer to the attached Drilling Program. Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- · Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

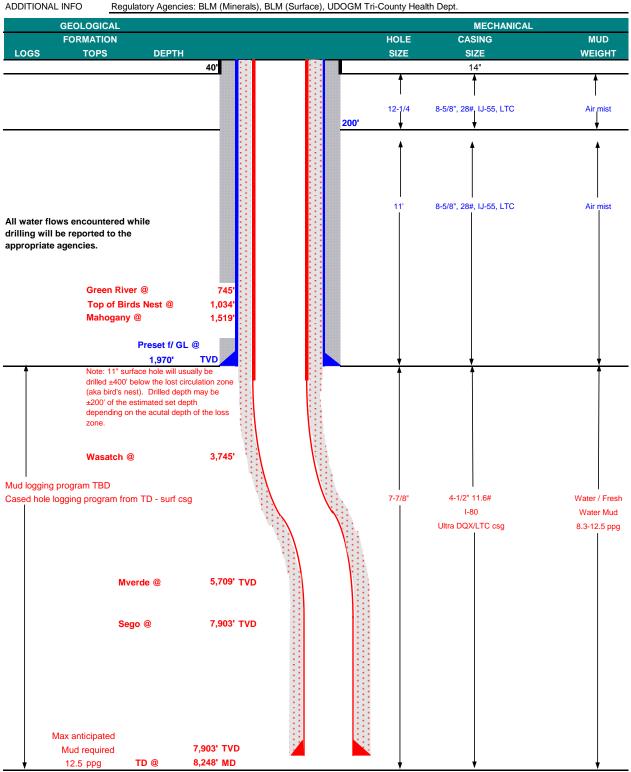
10. <u>Other Information:</u>

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP May 11, 2012 **BONANZA1023-17K4BS** WELL NAME TD 7,903' TVD 8,248' MD **FIELD** Natural Buttes **COUNTY** Uintah STATE Utah FINISHED ELEVATION 5179.5 SURFACE LOCATION **SWNE** 2483 FNL Sec 17 T 10S R 23E -109.348292 NAD 83 Latitude: 39.949446 Longitude: BTM HOLE LOCATION R 23E **NESW** 1814 FSL 2138 FWL Sec 17 T 10S Latitude: 39.946717 Longitude: -109.352530 **NAD 83** OBJECTIVE ZONE(S) Wasatch/Mesaverde





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

| CASING PROGRAM | <u>4</u> | | | | | | | | DESIGN | FACTORS | |
|----------------|----------|-------|-------|--------|-------|-------|-------|-------|--------|---------|---------|
| | | | | | | | | | | LTC | DQX |
| | SIZE | INTE | ERVAL | _ | WT. | GR. | CPLG. | BURST | COLL | APSE | TENSION |
| CONDUCTOR | 14" | 0 | -40' | | | | | | | | |
| | | | | | | | | 3,390 | 1,880 | 348,000 | N/A |
| SURFACE | 8-5/8" | 0 | to | 1,970 | 28.00 | IJ-55 | LTC | 2.75 | 2.04 | 7.20 | N/A |
| | | | | | | | | 7,780 | 6,350 | 223,000 | 267,035 |
| PRODUCTION | 4-1/2" | 0 | to | 5,000 | 11.60 | I-80 | DQX | 1.11 | 1.24 | | 3.45 |
| | 4-1/2" | 5,000 | to | 8,248' | 11.60 | I-80 | LTC | 1.11 | 1.24 | 7.32 | |

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

| | FT. OF FILL | DESCRIPTION | SACKS | EXCESS | WEIG | HT | YIELD |
|----------------------|-------------|----------------------------------------|----------|-------------|----------------|----|-------|
| SURFACE LEAD | 500' | Premium cmt + 2% CaCl | 180 | 60% | 15.80 | | 1.15 |
| Option 1 | | + 0.25 pps flocele | | | | | |
| TOP OUT CMT (6 jobs) | 1,200' | 20 gals sodium silicate + Premium cmt | 270 | 0% | 15.80 | | 1.15 |
| | | + 2% CaCl + 0.25 pps flocele | | | | | |
| SURFACE | | NOTE: If well will circulate water to | surface, | option 2 wi | ll be utilized | | |
| Option 2 LEAD | 1,470' | 65/35 Poz + 6% Gel + 10 pps gilsonite | 140 | 35% | 11.00 | | 3.82 |
| | | + 0.25 pps Flocele + 3% salt BWOW | | | | | |
| TAIL | 500' | Premium cmt + 2% CaCl | 150 | 35% | 15.80 | | 1.15 |
| | | + 0.25 pps flocele | | | | | |
| TOP OUT CMT | as required | Premium cmt + 2% CaCl | as req. | | 15.80 | | 1.15 |
| PRODUCTION LEAD | 3,238' | Premium Lite II +0.25 pps | 260 | 35% | 12.00 | | 3.38 |
| | | celloflake + 5 pps gilsonite + 10% gel | | | | | |
| | | + 0.5% extender | | | | | |
| TAIL | 5,010' | 50/50 Poz/G + 10% salt + 2% gel | 1,180 | 35% | 14.30 | | 1.31 |
| | | + 0.1% R-3 | | | | | |

 $^{^{\}star}$ Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION Float shoe, 1 jt, flo

Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

 DRILLING ENGINEER:
 DATE:

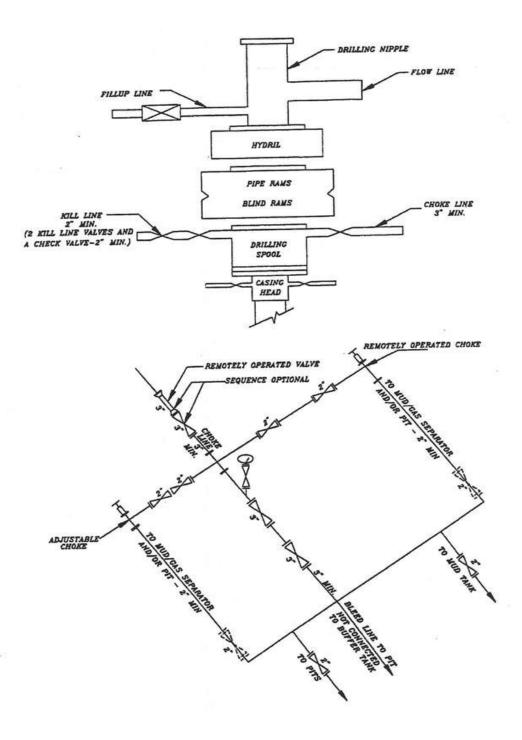
 Nick Spence / Danny Showers / Chad Loesel
 DATE:

 DRILLING SUPERINTENDENT:
 DATE:

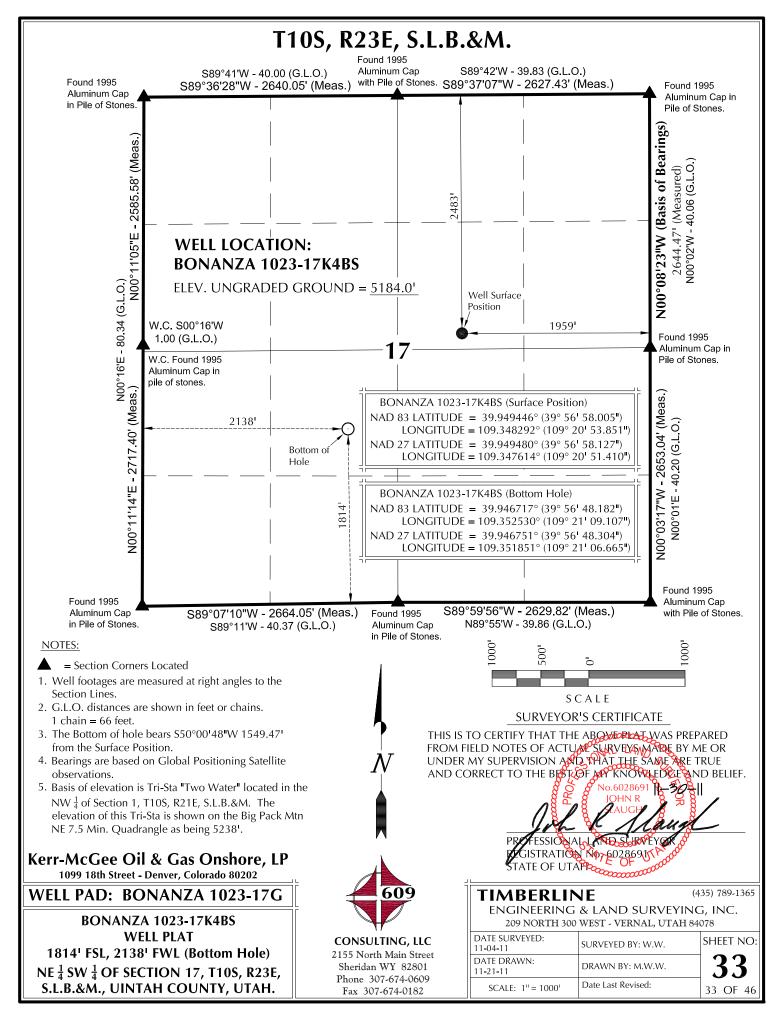
Kenny Gathings / Lovel Young

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

EXHIBIT A BONANZA1023-17K4BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK



| | | | SURFACE | | | | | | | | ВС | OTTOM HOLE | | |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------|------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------|
| WELL NAME | | D83 | UDE LAT | NAD: | | TUDE | FOOT 1 6F6 | | NAD | | CITUDE | NAC | | |
| BONANZA | 39°57'00.813 | LONGIT 109°20'49 | | TUDE 00.935" 1 | LONGI 109°20'4 | | FOOTAGES 2200' FNL | LATIT 39°56'5 | | | GITUDE 0'35.027" | LATITUDE 39°56'58.229" | LONGITUDE 109°20'32.586" | |
| 1023-17H4CS | 39.950226° | 109.34716 | | | 109 20 4 109.3464 | | 1644' FEL | 39.9494 | | | 0 00,000, | 39.949508° | 109.20 32.366 109.342385° | 493' FEL |
| BONANZA | 39°57'00.731 | 100 =0 10 | | 1. | 109°20'4 | | 2208' FNL | 39°56'5 | | | | 39°56'54.947" | 109°20'32.585" | |
| 1023-17I1BS BONANZA | 39.950203° 39°57'00.649 | 109.34714 109°20'49 | | | 109.3464 109°20'4 | | 1639' FEL 2217' FNL | 39.9485 39°56'5 | | | | 39.948596° 39°56'51.677" | 109.342385° 109°20'32.587" | 493' FEL 2151' FSL |
| 1023-17I1CS | 39.950180° | 109.34712 | 9° 39.95 |)214° 1 | 109.3464 | | 1633' FEL | 39.9476 | 554° | 109.34 | 43063° | 39.947688° | 109.342385° | 493' FEL |
| BONANZA 1023-17P4BS | 39°57'00.566 39.950157° | " 109°20'49 109.34710 | | | 109°20'4 109.3464 | | 2225' FNL 1627' FEL | 39°56'3 39.9431 | | | | 39°56'35.325" 39.943146° | 109°20'32.595" 109.342388° | 496' FSL 493' FEL |
| BONANZA 1023-1714BS | 39°57'00.485 39.950135° | " 109°20'49 109.34708 | .52. | | 109°20'4 109.3464 | | 2233' FNL 1622' FEL | 39°56'4 39.9467 | | | 0 0 0 1 0 - 0 | 39°56'48.407" 39.946780° | 109°20'32.588" 109.342386° | 1820' FSL 493' FEL |
| BONANZA 1023-17P1CS | 39°57'00.403 39.950112° | | .449" 39°57 | 00.525" | 109°20'4 109.3463 | 17.007" | 2242' FNL 1616' FEL | 39°56'3 39.9440 | | 109°2 | 0'35.034" | 39°56'38.596" 39.944054° | 109°20'32.594" 109.342387° | 827' FSL 493' FEL |
| BONANZA | 39°57'00.321 39.950089° | " 109°20'49 | .377" 39°57 | 00.443" 1 | 109°20'4 | 16.936" | 2250' FNL | 39°56'4 39.9449 | 1.744" | 109°2 | 0'35.032" | 39°56'41.866" 39.944963° | 109°20'32.592" | 1158' FSL |
| BONANZA | 39°57'00.239 | 109.34704 109°20'49 | | | 109.3463 109°20'4 | | 1611' FEL 2258' FNL | 39°56'4 | | | | 39°56'45.136" | 109.342387° 109°20'32.590" | 493' FEL 1489' FSL |
| 1023-17I4CS | 39.950066° | 109.34702 | • | | 109.3463 | | 1605' FEL | 39.9458 | | | | 39.945871° | 109.342386° | 493' FEL |
| | | | | | | | From Surface | | | | | | | |
| WELL NAME BONANZA | NORTH | EAST | WELL NAM BONANZA | | RTH | EAST | PONIA | NAME NZA | NOR | | EAST | WELL NAM BONANZA | | EAST |
| 1023-17H4CS | -272.31 | 1151.8' | 1023-17111 | S | 96.21 | 1146.7 | 1023-1 | | -918 | .9' | 1141.51 | 1023-17P4E | | 1137.4 |
| WELL NAME | NORTH | EAST | WELL NAM | IE NO | RTH | EAST | | | NOR | TH | EAST | WELL NAM | IE NORTH | EAST |
| BONANZA 1023-1714BS | -1233.3 | 1130.61 | BONANZA 1023-17P1 | cs -22 | 18.1' | 1125.9 | 9 BONA 1023-1 | | -1878 | 3.7' | 1120.01 | BONANZA 1023-1714C | -1539.4 | 1114.1' |
| | | BONAN BONA BONA | A 1023-1 ZA 1023 NZA 102 ANZA 10 | 17P4B 3-17I4 23-17P | IBS (8) P1CS | | | | S_{62} | $(T_{O})_{E}$ | Bottom F | 9972° } 1183.51' Hole) | | |
| THE NE 1/4 S.L.B.&M GLOBAL OBSERV | E BEARINGS F OF SECTION I. WHICH IS POSITIONIN ATIONS TO I | BONAN BONA BONA BONA BO B IS THE EAS N 17, T10S TAKEN FRO IS SATELLI BEAR NOO® | ZA 1023 NZA 102 ANZA 102 ANZA 102 ANZA 102 ONANZA T LINE OF . R23E, DM TE . 08'23"W. | 711CS 17P4B 13-1714 23-17P 023-17 1023- | AZ= 26°54 (To E | =153.0 '46"E - Bottom AZ= 30°48' | 23°54°34"E 2806.39 08722° - 2487.46 104"E - 21 30ttom Ho | 89° 87.23 | 567/10 53/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50005/10 50000000000 | (To E) AZ 131'44 Botton Og/SZ/Otton | 30ttom + 179/10/10/10/10/10/10/10/10/10/10/10/10/10/ | 7.46' 2.46' | | |
| THE NE 1/4 S.L.B.&M GLOBAL OBSERV | F BEARINGS OF SECTION WHICH IS POSITIONIN ATIONS TO I S C Gee Oil Bth Street - D AD - BOI LL PAD INT A 1023-17 A 1023-1714BS | BONAN BONA BONA BONA BONA BONA BONAN BONANZA BONANZA BONANZA BONANZA | ZA 1023 NZA 102 NZA 102 ANZA 10 NANZA 10 NANZA 10 NANZA 10 NANZA 1 CONANZA T LINE OF R23E, DM TE 08'23"W. Dnshore rado 80202 1023-17 E PLAT 1023-17P48 1023-17P10 | 711CS .17P4B .3-17I4 .23-17P .023-17 .1023- .5, .5, .5, .5, .5, .5, .5, .5, .5, .5, | AZ= 26°54 (To E | =153.0 '46"E - Bottom AZ= 30°48' (To E | 08722° - 2487.46 n Hole) =149.1988 '04"E - 21 Bottom Ho | 89° 87.23 oole) | 567/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 | (To E A Z I A A Botton Botton Botton ENGII 209 | BERLIN NORTH 3 EYED: | NE G & LAND 00 WEST - VER SURVEYED B | SURVEYINC RNAL, UTAH 84 8Y: W.W. | SHEET NO: |
| Kerr-McC 1099 18 WELL PA WELLS - BONANZA BONANZA BONANZA BONANZA | BEARINGS OF SECTION WHICH IS POSITIONIN ATIONS TO I S C AD - BO ELL PAD INT NZA 1023-17 A 1023-17 | BONAN BONA BONA BONA BONA BONA BONA BONA | ZA 1023 NZA 1023 NZA 102 ANZA 102 ANZA 102 T LINE OF . R23E, DM TE . 08'23"W. . 08'23"W. . 08'23"W. | 711CS .17P4B .3-17I4 .23-17P .023-17 .1023- .5, .5, .5, .5, .5, .5, .5, .5, .5, .5, | AZ= 26°54 (To E | =153.0 '46"E - Bottom AZ= 30°48' (To E | 08722° - 2487.46 n Hole) =149.1986 '04"E - 21 Bottom Ho | 89° 87.23 ole) | 567/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 507/70 | (To E A S) A A S O S O S O S O S O S O S O S O S O | BERLIN NORTH 3 EYED: | 183.51 Hole) 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 10.46 1 | SURVEYINC RNAL, UTAH 840 8Y: W.W. M.W.W. | G, INC. |

| | | | SURFACE PC | | | | | | | OTTOM HOLE | | |
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| WELL NAME | N/ LATITUDE | AD83 LONGIT | JDE LATITU | NAD27 | GITUDE | FOOTAGES | LATITU | NAD8 | B3 LONGITUDE | NAD LATITUDE | | FOOTAGES |
| BONANZA | 39°57'00.123 | | | |)'48.929" | 2269' FNL | | | 109°20'51.938" | | 109°20'49.496" | 2146' FNL |
| 1023-17G4BS | 39.950034° | 109.34760 | | | | 1766' FEL | 39.95037 | 72° 1 | 109.347761° | 39.950406° | 109.347082° | 1810' FEL |
| BONANZA 1023-17G4CS | 39°57'00.041 39.950011° | " 109°20'51 109.34758 | | | 0'48.85 <i>7</i> " 6905° | 2278' FNL 1760' FEL | 39°56'58 39.94946 | | 109°20'51.920" 109.347756° | | 109°20'49.479" 109.347077° | 2476' FNL 1809' FEL |
| BONANZA | 39°56'59.958 | | | | 0903 | 2286' FNL | | | 109.347730 109°20'51.919" | | 109°20'49.477" | 2478' FSL |
| 1023-17J1BS | 39.949988° | 109.34756 | | | | 1755' FEL | 39.94855 | | 109.347755° | 39.948590° | 109.347077° | 1809¹ FEL |
| BONANZA 1023-17I1CS | 39°56'59.877 39.949966° | 109°20'51 109.34754 | | 1 |)'48.714" 6865° | 2294' FNL 1749' FEL | 39°56'51 39.94765 | II. | 109°20'51.972" 109.347770° | | 109°20'49.530" 109.347092° | 2148' FSL 1813' FEL |
| BONANZA | 39°56'59.794 | | .083" 39°56'59 | .916" 109°20 | 0'48.642" | 2303' FNL | 39°56'48 | 8.272" 1 | 109°20'51.922" | 39°56'48.394" | 109°20'49.480" | 1817' FSL |
| 1023-17J4BS BONANZA | 39.949943° 39°56'59.713 | 109.34752 3" 109°20'51 | | | 6845° 0'48.571" | 1744' FEL 2311' FNL | 39.94674 | | 109.347756° 109°20'51.910" | 39.946776° 39°56'45.134" | 109.347078° 109°20'49.469" | 1809' FEL 1487' FSL |
| 1023-17J4CS | 39.949920° | 109-20-31 | | | | 1738' FEL | 39.94583 | II. | 109°20'31.910 109.347753° | 39.945870° | 109.347075° | 1808' FEL |
| BONANZA | 39°56'59.631 | | | | 0'48.499" | 2319' FNL | 39°56'41 | 1 - | 109°20'51.912" | | 109°20'49.471" | 1157' FSL |
| 1023-17O1BS BONANZA | 39.949897° 39°56'59.549 | 109.34748 0" 109°20'50 | | | 6805° 0'48.427" | 1732' FEL 2328' FNL | 39.94493 39°56'38 | | 109.347753° 109°20'51.913" | 39.944965° 39°56'38.603" | 109.347075° 109°20'49.472" | 1808' FEL 826' FSL |
| | | 109.34746 | 4° 39.9499 |)8° 109.34 | 6785° | 1727' FEL | 39.94402 | 23° 1 | 109.347754° | 39.944056° | 109.347076° | 1808' FEL |
| BONANZA 1023-17O4BS | 39°56'59.467 | 109°20'50 109.34744 | | |)'48.355" 6765° | 2336' FNL 1721' FEL | 39°56'35 39.94311 | | 109°20'51.915" 109.347754° | | 109°20'49.474" 109.347076° | 496' FSL 1808' FEL |
| 1023-17 0 403 | 33.343032 | 109.34/44 | | TIVE COORD | | | | | | 33.343131 | 109.347070 | TOUG TEE |
| WELL NAME | NORTH | EAST | WELL NAME | NORTH | EAS | | NAME | NORTI | | WELL NAM | E NORTH | EAST |
| BONANZA | 123.0¹ | -44.4' | BONANZA | -198.7' | -48.1 | BONA | | -521.9 | 9' -53.2' | BONANZA | -843.7' | -62.5' |
| 1023-17G4BS WELL NAME | NORTH | EAST | WELL NAME | NORTH | EAS | 1023-1 | 7J1BS NAME | NORTI | | WELL NAM | S | EAST |
| BONANZA | -1166.3 ¹ | -63.8 | BONANZA | -1488.1 | -68.0 | BONIA | | -1809.i | | BONANZA | -2132.5 ¹ | -78.6 |
| 1023-17J4BS | | | 1023-17J4CS | -1400.1 | -66.0 | 1023-1 | 7O1BS | -1009. | 0 -/3.3 | 1023-17010 | CS -2132.3 | -/ 0.0 |
| WELL NAME BONANZA | NORTH | EAST | | | | 1 | A 7 | 7-340 | .16306° | | | |
| 1023-17O4BS | -2454.2 | -83.9' | | | | | | | W - 130.75 | Į. | | |
| BASIS OF BE | ARINGS IS T | HE FAST I I | NE OE | | | \ \ | | | om Hole) | | | |
| THE NE 4 OF | | | | | | \ | (| | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
| S.L.B.&M. W | | | 52, | | | \ | | | 1023-17G | | | |
| | | | | | | \ | S RON | | A 1023-17 | G4CS | | |
| GLOBAL PO | | | | | | o ´ ' | | O A I A A | 17 4 1000 1 | 714 DC | | |
| GLOBAL PO Observation | | | | 7– 182 61. | 8330 | | X6 BC | | NZA 1023-1 NZA 1023- | | | |
| | | | А | Z=182.61 | | | X6 BC X6 B | BONA | NZA 1023- | 17J1CS | | |
| | | | A S02°3 | 7'06"W - | 1489.6 | | 6. BC | BONA BON & BO | NZA 1023- ANZA 1023 NANZA 10 | 17J1CS 3-17J4BS 23-17J4CS | | |
| | | | A S02°3 | | 1489.6 | | 6. BC | BONA BONA & BOI & BO | NZA 1023- ANZA 1023 NANZA 10 ONANZA 1 | -17J1CS 3-17J4BS 23-17J4CS 023-17O1 | | |
| | | | A S02°3 (T | 7'06"W - | 1489.6 Hole) | | 6. BC | BONA BONA & BOI & BO | NZA 1023- ANZA 1023 NANZA 10 ONANZA 1 BONANZA | -17J1CS 3-17J4BS 23-17J4CS 023-17O1 1023-17O | 1CS | |
| | | | A S02°3 (T AZ=1 | 7'06"W - ' o Bottom | 1489.6 Hole))° | | 6. BC | BONA BONA & BOI & BO | NZA 1023- ANZA 1023 NANZA 10 ONANZA 1 BONANZA | -17J1CS 3-17J4BS 23-17J4CS 023-17O1 | 1CS | |
| | | | A \$02°3 (T AZ= \$03°07'4 | 7'06"W - o Bottom 83.13000 | 1489.6 Hole))° 58.03! | | 6. BC | BONA BONA & BOI & BO | NZA 1023- ANZA 1023 NANZA 10 ONANZA 1 BONANZA | -17J1CS 3-17J4BS 23-17J4CS 023-17O1 1023-17O | 1CS | |
| | | | A \$02°3 (T AZ=´ \$03°07'4 (To E | 7'06"W - o Bottom 83.13000 8"W - 116 ottom Ho | 1489.6 Hole))° 58.03! | | 6. BC | BONA BONA & BOI & BO | NZA 1023- ANZA 1023 NANZA 10 ONANZA 1 BONANZA | -17J1CS 3-17J4BS 23-17J4CS 023-17O1 1023-17O | 1CS | |
| | | .R N00°08'. | A \$02°3 (T AZ=2 \$03°07'4 (To E AZ=184 | 7'06"W - 1 o Bottom 83.13000 8"W - 116 ottom Ho .23611° | 1489.6 Hole) o° 58.03' le) | | 6. BC | BONA BONA & BOI & BO | NZA 1023- ANZA 1023 NANZA 10 ONANZA 1 BONANZA | -17J1CS 3-17J4BS 23-17J4CS 023-17O1 1023-17O | 1CS | |
| | | .R N00°08'. | A \$02°3 (T AZ=´ \$03°07'4 (To E AZ=184 04°14'10"\ | 7'06"W - 1 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 | 1489.6 Hole))° 58.03' le) | 11 / | 6. BC | BONA BONA & BOI & BO | NZA 1023- ANZA 1023 NANZA 10 ONANZA 1 BONANZA | -17J1CS 3-17J4BS 23-17J4CS 023-17O1 1023-17O | 1CS | |
| | | .R N00°08'. | A \$02°3 (T AZ=2 \$03°07'4 (To E AZ=184 | 7'06"W - 1 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole))° 58.03' le) | 11 / | 6. BC | BONA BONA & BOI & BO | NZA 1023- ANZA 1023 NANZA 10 ONANZA 1 BONANZA | -17J1CS 3-17J4BS 23-17J4CS 023-17O1 1023-17O | 1CS | |
| | | .R N00°08'. | A \$02°3 (T AZ=´ \$03°07'4 (To E AZ=184 04°14'10"\ | 7'06"W - 1 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole))° 58.03' le) | 11 / | 6. BC | BONA BONA & BOI & BO | NZA 1023- ANZA 1023 NANZA 10 ONANZA 1 BONANZA | -17J1CS 3-17J4BS 23-17J4CS 023-17O1 1023-17O | 1CS | |
| | | .R N00°08'. | A \$02°3 (T AZ=´ \$03°07'4 (To E AZ=184 04°14'10"\ | 7'06"W - 1 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole))° 58.03' le) | 11 / | 6. BC | BONA BONA & BOI & BO | NZA 1023- ANZA 1023 NANZA 10 ONANZA 1 BONANZA | -17J1CS 3-17J4BS 23-17J4CS 023-17O1 1023-17O | 1CS | |
| | | .R N00°08'. | A \$02°3 (T AZ=´ \$03°07'4 (To E AZ=184 04°14'10"\ | 7'06"W - 1 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole))° 58.03' le) | 11 / | 6. BC | BONA BONA & BOI & BO | NZA 1023- ANZA 1023 NANZA 10 ONANZA 1 BONANZA | -17J1CS 3-17J4BS 23-17J4CS 023-17O1 1023-17O | 1CS | |
| | | .R N00°08'. | A \$02°3 (T AZ=´ \$03°07'4 (To E AZ=184 04°14'10"\ | 7'06"W - 1 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole))° 58.03' le) | 11 / | 6. BC | BONA BONA & BOI & BO | NZA 1023- ANZA 102: NANZA 10 ONANZA 1 BONANZA BONANZA BONANZA | .17J1CS 3-17J4BS 23-17J4CS (023-17O1) 1023-17O A 1023-17O | 1CS | |
| | | .R N00°08'. | A \$02°3 (T AZ=´ \$03°07'4 (To E AZ=184 04°14'10"\ | 7'06"W - 1 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole) 08.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508. | 11 | 6. BC | BONA BONA 6. BOI 6. BOI 1 2 | NZA 1023- ANZA 1023- NANZA 10 ONANZA 1 BONANZA BONANZA BONANZA AZ=182 | .17J1CS 3-17J4BS 23-17J4CS 1023-17O1 1023-17O A 1023-17O | OABS | |
| | | .R N00°08'. | A \$02°3 (T AZ=´ \$03°07'4 (To E AZ=184 04°14'10"\ | 7'06"W - 1 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole) 08.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508. | 11 | 6. BC | BONA BONA 6. BOI 6. BOI 1 2 | NZA 1023- ANZA 1023- ANZA 1025- NANZA 10 ONANZA 1 BONANZA BONANZA BONANZA AZ=182 502°19'11"\ | .17J1CS 3-17J4BS 23-17J4CS 1023-17O1 1023-17O A 1023-17O N - 1811.25 | OABS | |
| | | .R N00°08'. | A \$02°3 (T AZ=´ \$03°07'4 (To E AZ=184 04°14'10"\ | 7'06"W - 1 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole) 08.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508. | 2444° | 6. BC | BONA BONA 6. BOI 6. BOI 1 2 | NZA 1023- ANZA 1023- NANZA 10 ONANZA 1 BONANZA BONANZA BONANZA AZ=182 | .17J1CS 3-17J4BS 23-17J4CS 1023-17O1 1023-17O A 1023-17O N - 1811.25 | OABS | |
| | | .R N00°08'. | A \$02°3 (T AZ=´ \$03°07'4 (To E AZ=184 04°14'10"\ | 7'06"W - 1 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole) 08.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508. | 2444° | 6. BC | BONA BONA 6. BOI 6. BOI 1 2 | AZ=182 AZ=182 AZ=182 (To Botto | .17J1CS 3-17J4BS 23-17J4CS 1023-17O1 1023-17O A 1023-17O N - 1811.25 | OABS | |
| OBSERVATIO | | .R N00°08'. | A \$02°3 (T AZ=´ \$03°07'4 (To E AZ=184 04°14'10"\ (To Botto | 7'06"W - 10 Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole) 08.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508. | 2444° | 6. BC | BONA BONA 6. BON 6. BON 6. Co. | AZ=182 AZ=182 ANZA 1023 ANZA 1023 ANZA 1023 ANZA 1023 ANZA 1023 ANZA 1023 AZ=182 | 17J1CS 3-17J4BS 23-17J4CS 1023-17O1 1023-17O A 1023-17O V - 1811.25 om Hole) | TICS DABS | |
| OBSERVATIO | ONS TO BEA | .R N00°08'. | A \$02°3 (T AZ=´ \$03°07'4 (To E AZ=184 04°14'10"\ (To Botto | 7'06"W - 1 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole) 08.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508. | 2444° | 6. BC | BONA BONA 6. BON 6. BON 6. Co. | AZ=182 SO2°06'40" NZA 1023- ANZA 1023- ANZA 1025- ANZA 1023- ANZA 1023- ANZA 1023- ANZA 1023- ANZA 1023- AZ=1825- AZ=18 | 17J1CS 3-17J4BS 23-17J4CS 1023-17O1 1023-17O A 1023-17O V - 1811.25 om Hole) | TICS DABS | |
| OBSERVATIO | ONS TO BEA | AR N00°08'; | A \$02°3 (T AZ=´ \$03°07'4 (To E AZ=184 04°14'10"\ (To Botto | 7'06"W - 10 Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole) 08.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508. | -524.60' Hole) | 6. BC | BONA BONA 6. BON 6. BON 6. Co. | AZ=182 602°06'40"\ (To Botto | 2.31972° W - 1811.25 2.11111° W - 2133.90 M - 2133.90 M - 180) | TICS DABS | |
| OBSERVATIO | ONS TO BEA | AR N00°08'; | A \$02°3 (T AZ=´ \$03°07'4 (To E AZ=184 04°14'10"\ (To Botto | 7'06"W - 10 Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole) 08.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508. | 2444° | 6. BC | BONA BONA 6. BOI 6. BOI 10. S | AZ=182 SO2°06'40" AZ=182 AZ=182 AZ=182 AZ=182 AZ=182 AZ=182 AZ=182 AZ=182 | 17J1CS 3-17J4BS 23-17J4CS 1023-17O1 1023-17O A 1023-17O A 1023-17O V - 1811.25 om Hole) 2.11111° W - 2133.90 om Hole) 1.95778° | OTCS DABS | |
| OBSERVATION STATEMENT OF THE COMMENT | NS TO BEA | S Gas (| A S02°3 (T AZ= ⁻ S03°07'4 (To E AZ=184 04°14'10"\ (To Botto | 7'06"W - 10 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole) 08.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508. | 2444° | 6. BC | BONA BONA 6. BOI 6. BOI 10. S | AZ=182 602°19'11"\ (To Botte AZ=182 502°06'40"\ (To Botte AZ=182 \$02006'40"\ (To Botte AZ=182 | 2.31972° W - 1811.25 2.11111° W - 2133.90 M - 2133.90 M - 180) | OTCS DABS | |
| OBSERVATION WEET-McC 1099 18 | S C A L Gee Oil 8th Street - D | S Gas (enver, Colo | A \$02°3 (T AZ=´ \$03°07'4 (To E AZ=184 04°14'10"\ (To Botto | 7'06"W - 10 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) ottom of ole | 1489.6 Hole) 08.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508. | S05°49'28"W - 524.60' (To Bottom Hole) | 6. BC | BONA BONA 6. BOI 70. Co. | AZ=182 SO2°06'40"\ (To Botte AZ=18 SO1°57'28' (To Botte | 17J1CS 3-17J4BS 23-17J4CS 1023-17O1 1023-17O A 1023-17O A 1023-17O W - 1811.25 om Hole) 2.11111° W - 2133.90 om Hole) 1.95778° W - 2455.5 tom Hole) | O' | |
| OBSERVATION WEET-McC 1099 18 | S C A L Gee Oil 8th Street - D | S Gas (enver, Colo | A S02°3 (T AZ= ⁻ S03°07'4 (To E AZ=184 04°14'10"\ (To Botto | 7'06"W - 10 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) ottom of ole | 1489.6 Hole) 08.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508. | 2444° | 6. BC | BONA BONA 6. BOI 7. BOI 1 January 1 | AZ=182 602°06'40"\ (To Botte AZ=182 502°06'40"\ (To Botte AZ=182 | 2.31972° W - 1811.25 2.11111° W - 2133.90 W - 2455.5 W - 2455.5 M - 10e) | 11CS D4BS | 35) 789-1365 |
| Kerr-McC 1099 18 WELL PA | S C A L Gee Oil Bth Street - D AD - BO ELL PAD INT | E & Gas (enver, Colo NANZA ERFERENCE | A S02°3 (T AZ=´ S03°07'4 (To E AZ=184 04°14'10"\ (To Botto Dnshore, rado 80202 1023-17 | 7'06"W - 10 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) ottom of ole | 1489.6 Hole) 08.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508.03' / 508. | S05°49'28"W - 524.60' (To Bottom Hole) | 6. BC | BONA BONA 6. BOI 7. BOI 1 January 1 | AZ=182 SO2°06'40" (To Botte AZ=182 SO1°57'28' (To Botte AZ=182 NAME AZ=182 AZ=1 | 2.31972° V - 1811.25 2.11111° W - 2133.90 W - 2455.5 W - 2455.5 M - 2450.5 W - 2450.5 M - 2450.5 M - 2450.5 | OTICS DABS OTICS DABS OTICS | , INC. |
| WELL PA | S C A L Gee Oil Bth Street - D AD - BO ELL PAD INT VELLS - BONAN | E & Gas (enver, Colo NANZA ERFERENCE VZA 1023-170 | A S02°3 (T AZ= S03°07'4 (To E AZ=184 04°14'10"\ (To Botto Compared to Botto AZ=184 AZ=184 | 7'06"W - 10 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) ottom of ole | 1489.6 Hole) 08.03' 1.204.40' 1.204.40' 1.204.40' | S05°49′28″W - 524.60′ (To Bottom Hole) — — — — — — — — — — — — — — — — — — — | 6. BC | BONA BONA 6. BOI 6. BOI 1 S | AZ=182 SO2°06'40"\ (To Botte AZ=18 SO1°57'28' (To Botte AZ=18 SO1°57'28' (To Botte AZ=18 SO1°57'28' (To Botte AZ=18 | 2.31972° W - 2133.90 M - 2455.5 M - 2455.5 M - 2455.5 M - 2455.5 M - 2455.5 M - 2455.5 | OTICS D4BS OTICS D4BS OTICS D4BS OTICS D4BS | , INC. 978 |
| WELL PA WELL PA WELL PA BONANZA BONANZA | S C A L Gee Oil 8th Street - D AD - BO ELL PAD INT VELLS - BONAN A 1023-17J1CS | E Genver, Colo NANZA ERFERENCI S, BONANZA A, BONANZA A, BONANZA | A S02°3 (T AZ= S03°07'4 (To E AZ=184 04°14'10"\ (To Botto Dnshore, rado 80202 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185, 1023-17 185 | 7'06"W - 10 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole) $^{9}_{08.03}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ $^{1}_{13.9}$ | AZ=185.82444° S05°49'28"W - 524.60' (To Bottom Hole) | 6. BC | BONA BONA BONA BONA BONA BONA BONA BONA | AZ=182 SO2°06'40"\ (To Botte AZ=180 SO1°57'28' (To Botte | 2.31972° V - 1811.25 2.11111° W - 2133.90 W - 2455.5 W - 2455.5 M - 2450.5 W - 2450.5 M - 2450.5 M - 2450.5 | OTICS D4BS OTICS D4BS OTICS D4BS OTICS D4BS | , INC. 178 SHEET NO: |
| WELL PA WELL PA WELL PA WEDNANZ BONANZ BONANZ BONANZ | S C A L Gee Oil Bth Street - D AD - BO ELL PAD INT VELLS - BONAN A 1023-17J1CS A 1023-17J1CS | E S Gas (enver, Colo NANZA ERFERENCE VZA 1023-176 S, BONANZA S, BONANZA , BONANZA | A S02°3 (T AZ=7 S03°07'4 (To E AZ=184 04°14'10"\ (To Botto Dnshore, rado 80202 1023-17 EPLAT G4BS, 1023-17J1BS, 1023-17J1BS, 1023-17O1BS, 023-17O1BS, | 7'06"W - 10 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole) 0.88.03. 1.8.2.19.8.03. 1.8.2.19.8.03. 1.8.2.19.8.03. 1.8.2.19.8.03. 1.8.2.19.8.03. 1.8.2.19.8.03. | S05°49′28″W - 524.60′ (To Bottom Hole) — — — — — — — — — — — — — — — — — — — | C eet | BONA BONA BONA BONA BONA BONA BONA BONA | AZ=182 SO2°06'40"\ (To Botto AZ=180 SO1°57'28' (To Botto | 2.31972° W - 2133.90 M - 2455.5 M - 2455.5 M - 2455.5 M - 2455.5 M - 2455.5 M - 2455.5 | OLICS DABS DABS OLICS DASS SURVEYING NAL, UTAH 840 Y: W.W. | , INC. 178 SHEET NO: |
| WELL PA WELL PA BONANZA BONANZA BONANZA BONANZA LOC | S C A L Gee Oil Bth Street - D AD - BO ELL PAD INT VELLS - BONAN A 1023-17J1CS A 1023-17J1CS | E Gas (enver, Colo NANZA ERFERENCI VZA 1023-17(S, BONANZA BONANZA 1001 17, T103 | A S02°3 (T AZ= S03°07'4 (To E AZ=184 04°14'10"\ (To Botto Dnshore, rado 80202 1023-17/185, 1023-17/185, 1023-17/0485, 1023-170485 6, R23E, | 7'06"W - 10 o Bottom 83.13000 8"W - 116 ottom Ho .23611° V - 845.97 m Hole) | 1489.6 Hole) 0.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.68.03. 10.6 | AZ=185.82444° 505°49′28″W - 524.60′ (To Bottom Hole) The state of t | C eet | BONA BONA BONA BONA BONA BONA BONA BONA | AZ=182 SO2°06'40"\ (To Botto AZ=180 SO1°57'28' (To Botto | 2.31972° N - 1811.25 Om Hole) 2.11111° N - 2133.90 Om Hole) 1.95778° N - 2455.5 Tom Hole) 1.95778° N - 2455.5 Tom Hole) 1.95778° SURVEYED B | OLICS DABS (42) SURVEYING NAL, UTAH 840 Y: W.W. M.W.W. | , INC. 978 |

| | | | SURFACE POS | | | | | | | OTTOM HOLE | | |
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| WELL NAME | LATITUDE | AD83 LONGIT | UDE LATITUI | NAD27 | SITUDE FOC | OTAGES | LATIT | NAD8 | 83 LONGITUDE | NAD LATITUDE | 27 LONGITUDE | FOOTAGES |
| BONANZA | 39°56'59.268 | | | | | 5' FNL | 39°57'0 | | | | 109°21'06.575" | 2143' FNL |
| 1023-17F4BS | 39.949797° | 109.34799 | | | ⁷ 319° 187 | 7' FEL | 39.9503 | | 109.352505° | | 109.351826° | 2139' FWL |
| BONANZA 1023-17E4DS | 39°56'59.186 39.949774° | 1.00 -00- | | 1.00 =0 | | | 39°56'5 39.9494 | 1 3 | | | 109°21'18.455" | |
| BONANZA | 39.949//4 39°56'59.105 | 109.34797 5" 109°20'52 | - | | | '1' FEL '2' FNL | 39.9 4 94 | | 109.355805° 109°21'09.049" | | 109.355126° 109°21'06.607" | 1215' FWL 2472' FNL |
| 1023-17F4CS | 39.949751° | 109.34795 | | | | 55' FEL | 39.9494 | 1.7 | 109.352514° | | 109.351835° | 2138' FWL |
| BONANZA 1023-17L1AS | 39°56'59.023 39.949729° | 3" 109°20'52 109.34793 | | 1.00 =0 | | 0' FNL 60' FEL | 39°56'5 39.9483 | | 109°21'21.332" 109.355925° | | 109°21'18.889" 109.355247° | 2422 FSL 1183 FWL |
| BONANZA 1023-17K4CS | 39°56'58.941 39.949706° | 109°20'52 109.34791 | | 1.05 =0 | | 8' FNL 54' FEL | 39°56'4 39.9458 | | 109°21'09.139" 109.352539° | | 109°21'06.697" 109.351860° | 1484' FSL 2137' FWL |
| BONANZA 1023-17N1BS | 39°56'58.859 39.949683° | 0" 109°20'52 109.34789 | | | | 7' FNL 19' FEL | 39°56'4 39.9449 | | 109°21'09.158" 109.352544° | | 109°21'06.716" 109.351866° | 1155' FSL 2137' FWL |
| BONANZA | 39°56'58.776 39.949660° | 5" 109°20'52 | .360" 39°56'58. | 898" 109°20' | 49.918" 240 | 5' FNL | 39°56'3 39.9440 | 8.410" 1 | 109°21'09.1 <i>77</i> " | 39°56'38.531" | 109°21'06.735" | 825' FSL |
| BONANZA | 39°56'58.695 | 1.03 20 32 | .289" 39°56'58. | 817" 109°20' | 49.847" 241 | | 39°56'3 | 5.148" 1 | | 39°56'35.270" | 109.351871° 109°21'06.767" | 2137' FWL 495' FSL |
| 1023-17N4BS | 39.949638° | 109.34785 | <u> </u> | 1.0010 17 | 7180° 183 I NATES - Fron | n Surface | 39.9430 | | 109.352558° m Hole | 39.943131° | 109.351880° | 2136' FWL |
| WELL NAME | NORTH | EAST | WELL NAME | NORTH | EAST | WELL | | NORT | | WELL NAMI | E NORTH | EAST |
| BONANZA | 203.6 | -1264.4 | BONANZA | -117.4 | -2195.1 | BONA | NZA | -108.8 | | BONANZA | -505.5' | -2239.5 |
| 1023-17F4BS WELL NAME | NORTH | EAST | 1023-17E4DS WELL NAME | NORTH | EAST | 1023-1 WELL | | NORT | H EAST | WELL NAMI | | EAST |
| BONANZA 1023-17K4CS | -1420.6 | -1294.2 | BONANZA 1023-17N1BS | -1741.4' | -1300.81 | BONAN 1023-1 | | - 2063. | .1' -1307.5' | BONANZA 1023-17N4B | -2385.0 ¹ | -1315.1' |
| | | =/.00,/20 | ,00 | | | | | | べる RONA | N7A 1023 | -17F4DS | |
| | (To S86°5 - — — | Uole) | 2198.20' | 139° 2295.86' Hole) | | 1802 | 7,12 | | 6 BON | 0. | 23-17F4CS 23-17L1AS 1023-17K40 | CS 1BS N1CS |
| 58 | (To S86°5 - — — | 56 Bottom 66 17 W - — — — | 2198.20' — — — - | | 17 20 00 00 00 00 00 00 00 00 00 00 00 00 | | 1 | , S28°5- | AZ=212.3 2°21'53"W - (To Bottom AZ=208.873 | NANZA 102 NANZA 10 ONANZA 1 BONANZA BONANZ BONANZ 6472° - 2442.54' Hole) 661° 723.52' | 23-17F4CS 223-17L1AS 1023-17K40 1023-17N ZA 1023-17 | CS 1BS N1CS |
| ,09 | S86°5 (To Botto .5°07'51"V AZ=265. | D Bottom 66'17"W - 9m Hole) V - 1282. 13083° S77 | Hole) - 2198.20' | | 242/2018 | 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 / 10.00 | 1×//////////////////////////////////// | , S28°5- | AZ=212.3. 2°21'53"W - (To Bottom | NANZA 102 NANZA 10 ONANZA 1 BONANZA BONANZ BONANZ 6472° - 2442.54' Hole) 661° 723.52' | 23-17F4CS 223-17L1AS 1023-17K40 1023-17N ZA 1023-17 | CS 1BS N1CS |
| Tog Kerr-McC | S86°5 (To Botto .5°07'51"V AZ=265. | D Bottom 16'17"W - 10m Hole) 1282. 13083° 57. | 2198.20' -27' AZ=257.28' 7°16'53"W -(To Bottom | | 12 20 20 20 20 20 20 20 20 20 20 20 20 20 | | | , S28°5- | AZ=212.3 2°21'53"W - (To Bottom AZ=208.873 | NANZA 102 NANZA 10 ONANZA 1 BONANZA BONANZ BONANZ 6472° - 2442.54' Hole) 661° 723.52' | 23-17F4CS 223-17L1AS 1023-17K40 1023-17N ZA 1023-17 | CS 1BS N1CS |
| © Kerr-Mc(1099 1 | S86°5 (To Botto 5°07'51"V AZ=265. | D Bottom 16'17"W - 10m Hole) 10 - 1282. 13083° S77 | 2198.20' -27' AZ=257.28' 7°16'53"W -(To Bottom | .P | 12 20 20 20 20 20 20 20 20 20 20 20 20 20 | 1009 1009 | 710 | -S28°5 (T | AZ=212.3 2°21'53"W - (To Bottom AZ=208.873 52'25"W - 2 To Bottom H | NANZA 102 NANZA 102 NANZA 103 ONANZA 1 BONANZA BONANZ BONANZ 6472° - 2442.54' Hole) 661° 723.52' Iole) | 23-17F4CS 223-17L1AS 1023-17K4C 1023-17N 2A 1023-17 ZA 1023-17 | CS 1BS N1CS VN4BS |
| Kerr-McC 1099 1: WELL PA | S86°5 (To Botto | D Bottom 16'17"W - 1282. 13083° S7 | 2198.20' 27' AZ=257.28' 7°16'53"W (To Bottom) Compared to 80202 1023-170 TE PLAT | P G | 12 20 20 20 20 20 20 20 20 20 20 20 20 20 | | | -S28°5 (T | AZ=212.3 2°21'53"W - (To Bottom AZ=208.873 52'25"W - 2 To Bottom H | NANZA 102 NANZA 102 NANZA 103 ONANZA 1 BONANZA BONANZ BONANZ 6472° - 2442.54' Hole) 661° 723.52' Iole) | 23-17F4CS 123-17L1AS 1023-17K4C 1023-17N 2A 1023-17 ZA 1023-17 | CS 1BS N1CS (N4BS) 35) 789-1365 G, INC. |
| Kerr-McC 1099 1: WELL PA WELLS - BONA BONANZA | S86°5 (To Botto 55°07'51"V AZ=265. AZ=265. S C A I S C A I AD - BO ELL PAD INTA ANZA 1023-17F4C | D Bottom 16'17"W - 1282. 13083° S73 S73 ERFERENCE F485, BONANZA S, BONANZA | Dnshore, L rado 80202 1023-1764 1023-1764 | .P | CONSULTI | 09 NG, LLC | | -S28°5 (T | AZ=212.3 2°21'53"W - (To Bottom AZ=208.873 52'25"W - 2 To Bottom H | NANZA 102 NANZA 102 NANZA 103 ONANZA 1 BONANZA BONANZ BONANZ 6472° - 2442.54' Hole) 661° 723.52' Iole) | 23-17F4CS 123-17L1AS 1023-17K4C 1023-17N 2A 1023-17 ZA 1023-17 | CS 1BS N1CS (N4BS) 35) 789-1365 G, INC. |
| Kerr-McC 1099 1: WELL PA WELLS - BONANZA BONANZA BONANZA | S86°5 (To Botto (To Botto 5°07'51"V AZ=265. AZ=265. S C A Gee Oil 8th Street - D AD - BO ELL PAD INTA A 1023-17F4C A 1023-17F4C | Bottom 6617"W- 60m Hole) V-1282. 13083° S77 EE EN Cenver, Colo NANZA EERFERENCE 64BS, BONANZA 55, BONANZA 68 BONANZA | Onshore, I rado 80202 1023-17(18, 1023-17N1Bs, 1023-17N1Bs, 1023-17N1Bs, 1023-17N4Bs) | .P | 12 20 20 20 20 20 20 20 20 20 20 20 20 20 | NG, LLC Main Street Y 82801 | C et | -S28°5 (T | AZ=212.3. 2°21'53"W - (To Bottom AZ=208.873 52'25"W - 2 To Bottom H MBERLI NGINEERIN 209 NORTH 3 SURVEYED: | NANZA 102 NANZA 102 NANZA 10 ONANZA 1 BONANZA BONANZ BONANZ 6472° - 2442.54' Hole) 661° 723.52' lole) NE G & LAND 5 00 WEST VERI | 23-17F4CS 123-17L1AS 1023-17N-2 1023-17N-2 2A 1023-17 ZA 1023-17 ZA 1023-17 (4: SURVEYINC NAL, UTAH 84(Y: W.W. | CS 1BS N1CS 'N4BS 35) 789-1365 G, INC. |

| | | | SURFACE POS | ITION | | | | | F | OTTOM HOLE | | |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| WELL NAME | | D83 | | NAD27 | | | | NAD | 083 | NAD | | |
| BONANZA | 39°56'58.579 | LONGITU 109°20'54 | J DE LATITUI .353" 39°56'58. | | SITUDE '51.911" | FOOTAGES 2424' FNL | 39°56'5 | | LONGITUDE 109°21'25.982" | LATITUDE 39°56'51.342" | LONGITUDE 109°21'23.539" | FOOTAGES 2140' FSL |
| 1023-17L1CS | 39.949605° | 109.34843 | 1° 39.949639 | 9° 109.347 | 7753° | 1998' FEL | 39.9475 | 561° | 109.357217° | 39.947595° | 109.356539° | 822' FWL |
| BONANZA 1023-17K1BS | 39°56'58.497 39.949582° | 109°20'54 109.34841 | | | '51.840" 7733° | 2433' FNL 1993' FEL | 39°56'5 39.9485 | - 1 | 109°21'09.069" 109.352519° | 39°56'54.826" 39.948563° | 109°21'06.626" 109.351841° | 2474' FSL 2138' FWL |
| BONANZA | 39°56'58.415 | " 109°20'54 | .209" 39°56'58. | 536" 109°20' | 51.767" | 2441' FNL | 39°56'4 | 7.969" | 109°21'26.001" | 39°56'48.091" | 109°21'23.558" | 1811' FSL |
| 1023-17L4BS BONANZA | 39.949560° 39°56'58.333 | 109.34839 109°20'54 | | 10310 17 | 7713° '51.696" | 1987' FEL 2449' FNL | 39.9466 39°56'4 | | 109.357223° 109°21'26.020" | 39.946692° 39°56'44.840" | 109.356544° 109°21'23.577" | 822' FWL 1482' FSL |
| 1023-17L4CS | 39.949537° | 109.34837 | 2° 39.94957 | 1° 109.347 | 7693° | 1982' FEL | 39.9457 | 755° | 109.357228° | 39.945789° | 109.356549° | 8221 FWL |
| BONANZA 1023-17K1CS | 39°56'58.251 39.949514° | " 109°20'54 109.34835 | | 1.00 -0 | '51.624" 7673° | 2458' FNL 1976' FEL | 39°56'5 39.9476 | - 1 | 109°21'09.088" 109.352524° | 39°56'51.565" 39.947657° | 109°21'06.646" 109.351846° | 2144' FSL 2138' FWL |
| BONANZA | 39°56'58.169 | " 109°20'53. | .994" 39°56'58. | 291" 109°20' | '51.553" | 2466' FNL | 39°56'4 | 1.467" | 109°21'26.039" | 39°56'41.589" | 109°21'23.596" | 1153' FSL |
| 1023-17M1BS BONANZA | 39.949491° 39°56'58.086 | 109.34833 109°20'53 | | | 7654° '51.481" | 1971 FEL 2474 FNL | 39.9448 39°56'3 | | 109.357233° 109°21'26.058" | 39.944886° 39°56'38.328" | 109.356554° 109°21'23.615" | 822' FWL 823' FSL |
| | 39.949468° | 109.34831 | | | | 1965 FEL | 39.9439 | | 109.357238° | 39.943980° | 109.356560° | 822' FWL |
| BONANZA 1023-17K4BS | 39°56'58.005 39.949446° | " 109°20'53. 109.34829 | | 1.03 =0 | '51.410" 7614° | 2483' FNL 1959' FEL | 39°56'4 39.9467 | | 109°21'09.107" 109.352530° | 39°56'48.304" 39.946751° | 109°21'06.665" 109.351851° | 1814' FSL 2138' FWL |
| BONANZA 1023-17M4BS | 39°56'57.923 39.949423° | " 109°20'53. 109.34827 | | | 51.338" 7594° | 2491' FNL 1954' FEL | 39°56'3 39.9430 | | 109°21'26.076" 109.357243° | 39°56'35.077" 39.943077° | 109°21'23.634" | 494' FSL 822' FWL |
| 1043-17/NI4D3 | J 31343443 | 109.3482/ | | IVE COORDI | | | | | | J9.9 4 30// | 109.356565° | OZZ FVVL |
| WELL NAME | NORTH | EAST | WELL NAME | NORTH | EAS | | NAME | NOR | | WELL NAM | E NORTH | EAST |
| BONANZA 1023-17L1CS | -747.9' | -2463.0' | BONANZA 1023-17K1BS | -385.31 | -1151 | .5 BONA | NZA 17L4BS | -1060 | 0.4' -2475.4 | BONANZA 1023-17L4C | -1381.1' | -2482.0' |
| WELL NAME | NORTH | EAST | WELL NAME | NORTH | EAS | | NAME | NOR | TH EAST | WELL NAM | | EAST |
| BONANZA 1023-17K1CS | -690.5 | -1169.4' | BONANZA 1023-17M1BS | -1693.6' | -2494 | .31 BONA | NZA 17M1CS | -2015 | 5.3' -2500.9 | BONANZA 1023-17K4B | -995.7 ¹ | -1187.2 |
| WELL NAME | NORTH | EAST | 1043-17/WIID3 | | | 1023- | 17/WIIC3 | | | 1023-17 K4B | ,, | |
| BONANZA 1023-17M4BS | -2327.8' | -2513.2 | | | | | | | RONAN | ZA 1023-17 | 71.108 | |
| | | 10861° - | 573°06'31"\ | N - 2574. | Hole) | To Bottom ! | fole) | | - All | BONAN | A 1023-17 <i>N</i> IZA 1023-11 | A1CS 7K4BS |
| NZ=25 | AZ=253 51.49750° AZ=240 AZ=240 | 10861°- 571°29'51" 46.81139' AL2239.4 5.82361° | 573°06'31"\\ \(\) - 1214.23'\\\ \(\) - 1214.23'\\\ \(\) - 366°48'4'\\\ \(\) - 3889° 559°16'\\\ \(\) - 3889° 559°16'\\\ \(\) - 3889° 559°16'\\\ \(\) - 3889° 559°16'\\\ \(\) - 3889° 559°16'\\\ \(\) - 3889° 559°16'\\\ \(\) - 3889° 559°16'\\\ \(\) - 3889° 559°16'\\\ \(\) - 3889° 559°16'\\\ \(\) - 3889° 559°16'\\\ \(\) - 3889° 559°16'\\\ \(\) - 3889° 559°16'\\\ \(\) - 3889° 559°16'\\\ \(\) - 3889° 559°16'\\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° 559°16'\\ \(\) - 3889° | N-2574. TO BOTTOM TO BOTTO | Hole) Hole J. 92' TO BOIL TO | To Bottom ! To Bot | OF BEA OF BEA Sh. MO OF BEA AL POSI | RINGS SECTIONICH IS | | BONANZ BONAN BONAN BONAN A BONAN BONAN | A 1023-17N | A1CS 7K4BS |
| Kerr-McC 1099 18 WELL PA WEBONANZA BONANZA BONANZA | Gee Oil of the Street - D AD - BON ELL PAD INT VELLS - BONAN A 1023-17/L4CS A 1023-17/M1BS | & Gas Cenver, Colon NANZA ERFERENCE NZA 1023-1716, BONANZA, BONANZA, BONANZA, BONANZA | Onshore, L ado 80202 PLAT 1023-17485, 1023-1741CS, | 2014.891 3014.891 2317.19250 | CONSU 2155 No. | BASIS THE N S.L.B. GLOB OBSEI | OF BEA OF SE AL POSI RVATIO | RINGS SECTIO HICH IS HITIONII NS TO | MBERL NGINEERIN 209 NORTH E SURVEYED: | BONANZ BONAN BONAN BONAN 123"W. 123"W. 108 SC | A 1023-17M IZA 1023-17 NZA 102 | 7K4BS 7K4BS 17M4BS 35) 789-1365 6, INC. 078 SHEET NO: |
| Kerr-McC 1099 18 WELL PA WEBONANZA BONANZA BONANZA BONANZA | Gee Oil of the street - DAD - BON STREET - BONAN A 1023-17K18S A 1023-17K18S | & Gas Cenver, Color NANZA ERFERENCE NZA 1023-171 , BONANZA , BONANZA & BONANZA | Onshore, L rado 80202 1023-1748s, 1023-17M1Cs, 1023-17M48s | 2014.891 3014.891 2317.19250 | CONSU 2155 No Sherida | BASIS THE N S.L.B. GLOB OBSEI | OF BEA JE 4 OF S RM. WH AL POSI RVATIO | RINGS SECTIO HICH IS HITIONII NS TO | MBERL SON 17, T10S, R TAKEN FROM NG SATELLITE BEAR N00°08 MBERL SON NORTH E SURVEYED: 1-11 E DRAWN: | BONANZ BONAN BONAN BONAN INE OF 23E, 123"W. S C INE IG & LAND 300 WEST - VER | A 1023-17M IZA 1023-11 NZA 102 | 7K4BS 7K4BS 17M4BS |

1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-17G

WELL PAD - LOCATION LAYOUT 34 PROPOSED WELLS LOCATED IN SECTION 17, T10S, R23E, S.L.B.&M., UINTAH COUNTY, UTAH

RESERVE PIT CAPACITY (2' OF FREEBOARD) +/- 42,940 BARRELS

TIMBERLINE

609

CONSULTING, LLC

2155 North Main Street

Sheridan, WY 82801 Phone 307-674-0609

Fax 307-674-0182

ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

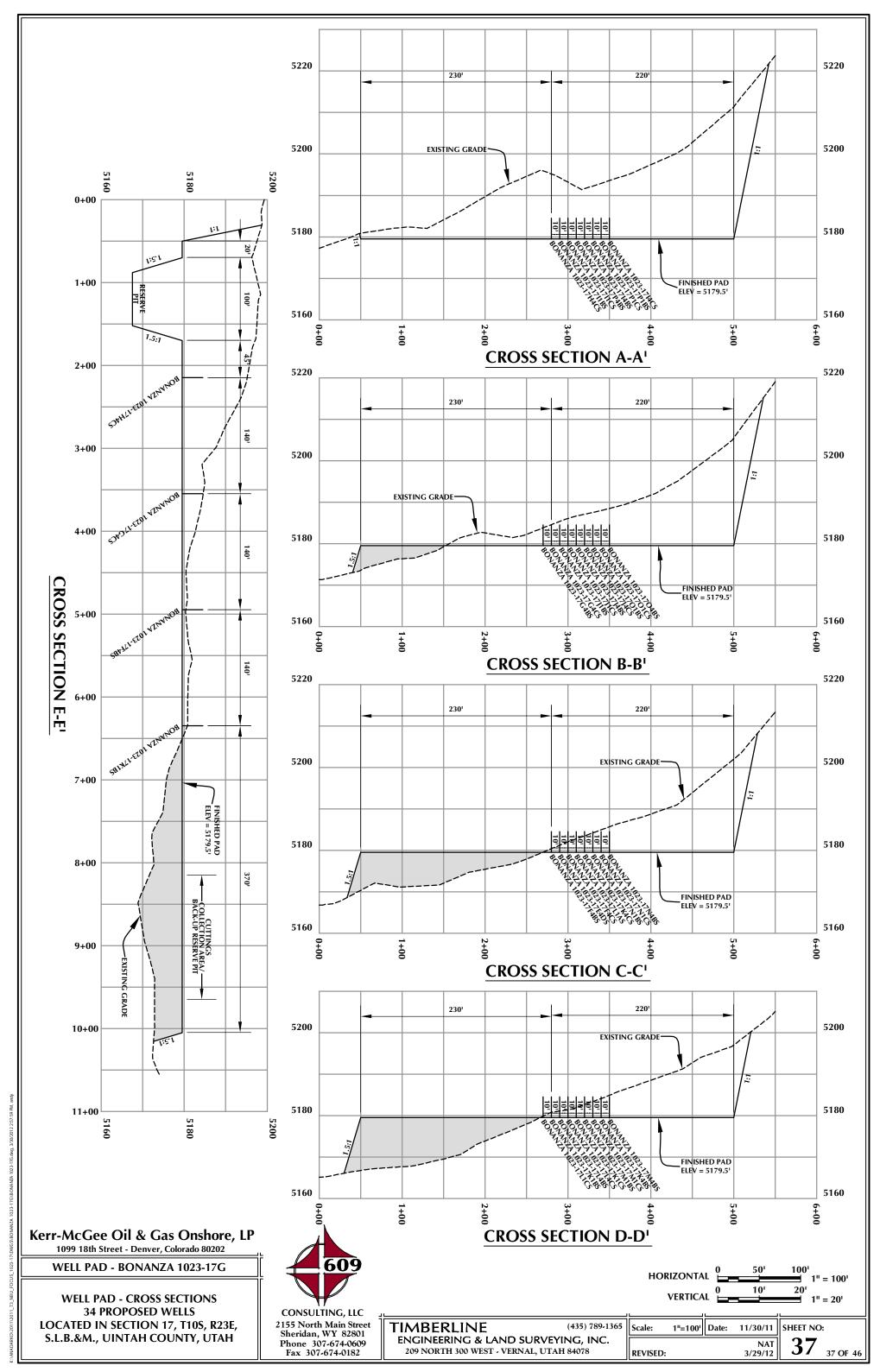
REVISED:



100¹ HORIZONTAL = 1" = 100'

21 CONTOURS

SCALE: 1"=100" | DATE: 11/30/11 | SHEET NO: 36 36 OF 46



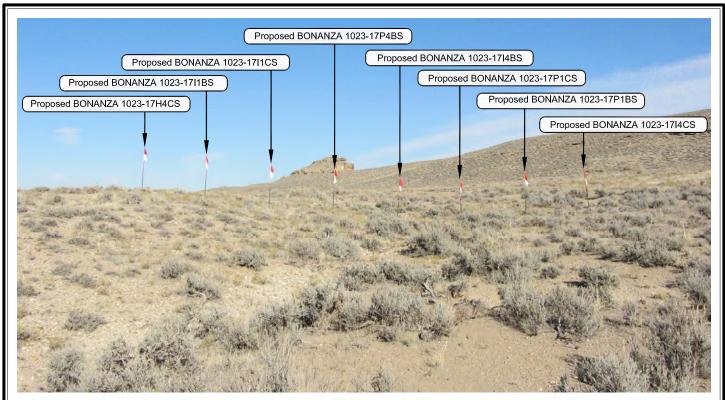


PHOTO VIEW: FROM CORNER #8 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY

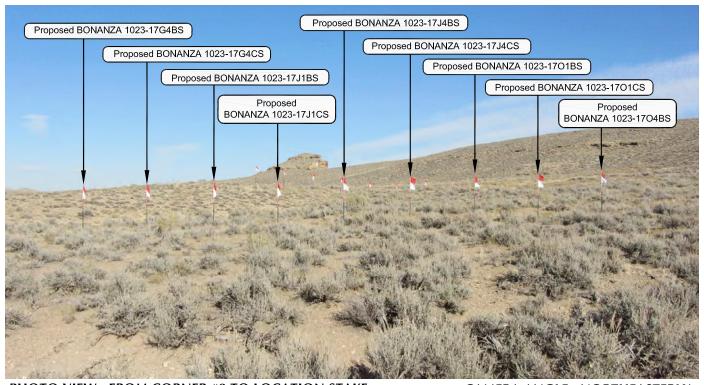


PHOTO VIEW: FROM CORNER #8 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY

Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-17G

LOCATION PHOTOS
34 PROPOSED WELLS
LOCATED IN SECTION 17, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH.



CONSULTING, LLC 2155 North Main Street

2155 North Main Stree Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

| - 1 | | | |
|-----|--------------------------------|-----------------------|-----------|
| | DATE PHOTOS TAKEN: 11-04-11 | PHOTOS TAKEN BY: W.W. | SHEET NO: |
| | DATE DRAWN: 11-21-11 | DRAWN BY: M.W.W. | 39A |
| | Date Last Revised: | | 39A OF 46 |

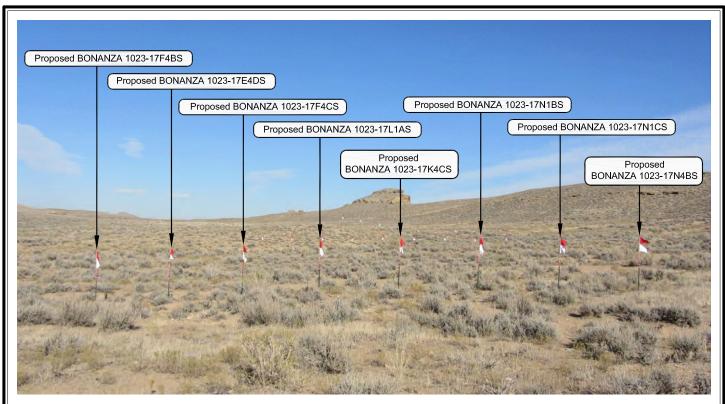


PHOTO VIEW: FROM CORNER #8 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY

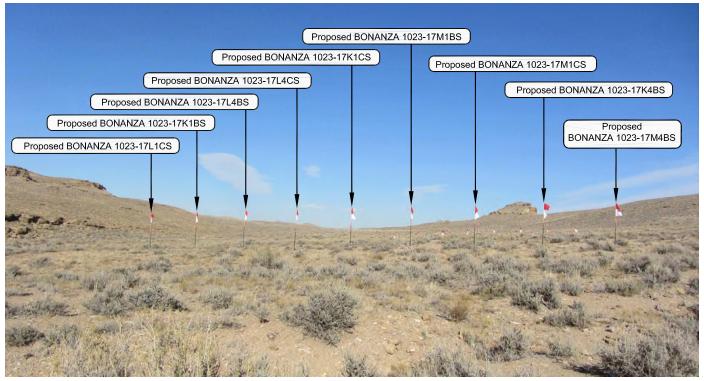


PHOTO VIEW: FROM CORNER #8 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY

Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-17G

LOCATION PHOTOS
34 PROPOSED WELLS
LOCATED IN SECTION 17, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH.



CONSULTING, LLC 2155 North Main Street Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

| П | | | |
|---|--------------------------------|-----------------------|-----------|
| | DATE PHOTOS TAKEN: 11-04-11 | PHOTOS TAKEN BY: W.W. | SHEET NO: |
| | DATE DRAWN: 11-21-11 | DRAWN BY: M.W.W. | 39B |
| | Date Last Revised: | | 39B OF 46 |



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHERLY

Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-17G

LOCATION PHOTOS 34 PROPOSED WELLS LOCATED IN SECTION 17, T10S, R23E, S.L.B.&M., UINTAH COUNTY, UTAH.



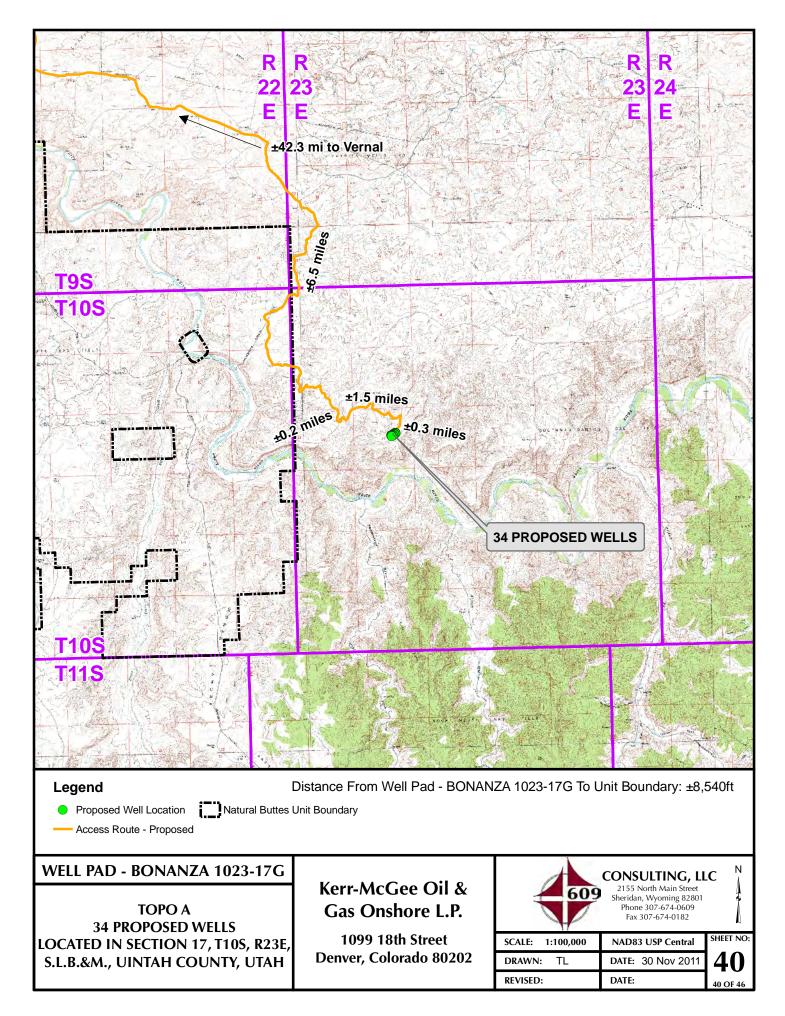
CONSULTING, LLC 2155 North Main Street Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

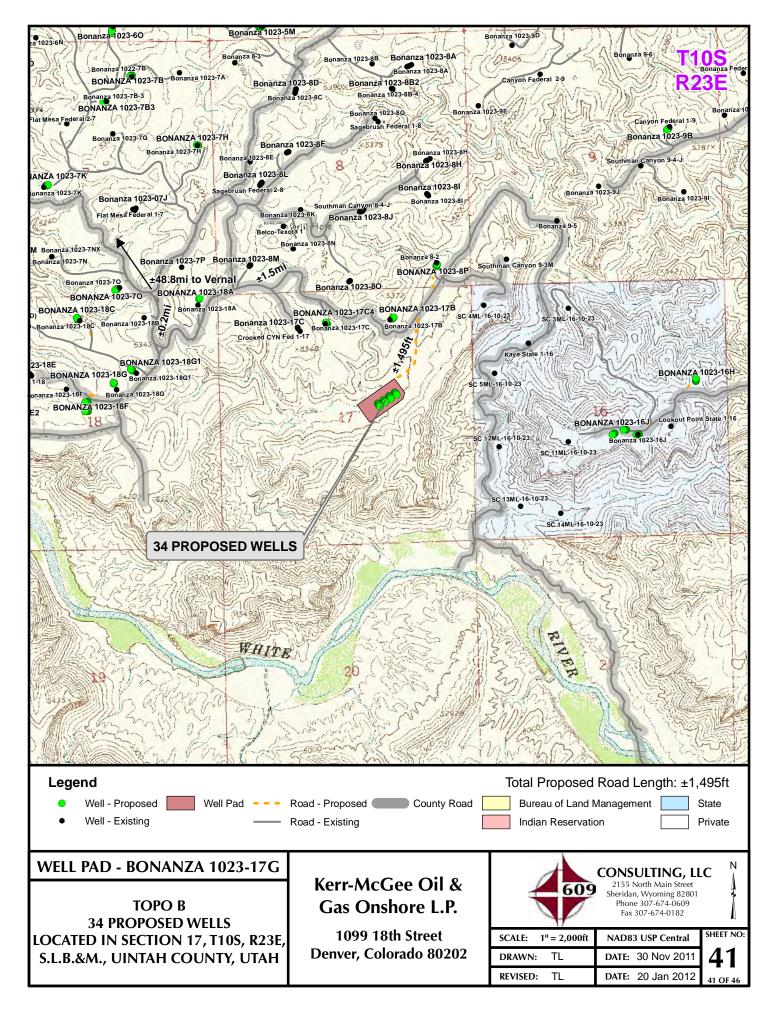
TIMBERLINE

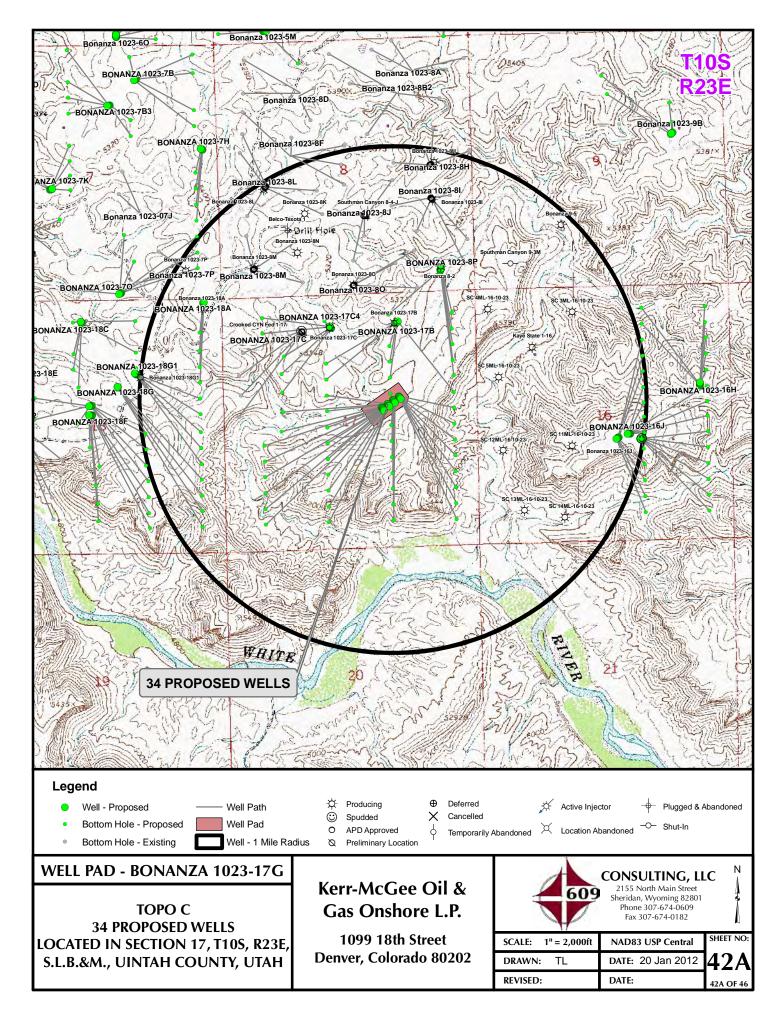
(435) 789-1365

ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

| DATE PHOTOS TAKEN: 1-04-11 | PHOTOS TAKEN BY: W.W. | SHEET NO: |
|-------------------------------|-----------------------|------------|
| DATE DRAWN: 1-21-11 | DRAWN BY: M.W.W. | 39C |
| Date Last Revised: | | 39C OF 46 |







| Proposed Well | Nearest Well Bore | Footage |
|---------------------|------------------------|---------|
| | | |
| BONANZA 1023-17H4CS | SC 5ML-16-10-23 | 1,127ft |
| BONANZA 1023-17I1BS | SC 12ML-16-10-23 | 1,153ft |
| BONANZA 1023-17I1CS | SC 12ML-16-10-23 | 1,026ft |
| BONANZA 1023-17P4BS | SC 13ML-16-10-23 | 1,423ft |
| BONANZA 1023-17I4BS | SC 12ML-16-10-23 | 997£t |
| BONANZA 1023-17P1CS | SC 13ML-16-10-23 | 1,427ft |
| BONANZA 1023-17P1BS | SC 12ML-16-10-23 | 1,239ft |
| BONANZA 1023-1714CS | SC 12ML-16-10-23 | 1,075ft |
| BONANZA 1023-17G4BS | Bonanza 1023-17B | 1,458ft |
| BONANZA 1023-17G4CS | Bonanza 1023-17B | 1,787ft |
| BONANZA 1023-17J1BS | Bonanza 1023-17B | 2,118ft |
| BONANZA 1023-17J1CS | SC 12ML-16-10-23 | 2,327ft |
| BONANZA 1023-17J4BS | SC 12ML-16-10-23 | 2,311ft |
| BONANZA 1023-17J4CS | SC 12ML-16-10-23 | 2,344ft |
| BONANZA 1023-1701BS | SC 12ML-16-10-23 | 2,424ft |
| BONANZA 1023-1701CS | SC 12ML-16-10-23 | 2,544ft |
| BONANZA 1023-1704BS | SC 12ML-16-10-23 | 2,700ft |
| BONANZA 1023-17F4BS | Crooked CYN Fed 1-17 | 1,345ft |
| BONANZA 1023-17E4DS | Bonanza 1023-17E3CS BH | 918ft |
| BONANZA 1023-17F4CS | Crooked CYN Fed 1-17 | 1,659ft |
| BONANZA 1023-17L1AS | Bonanza 1023-17E3CS BH | 939ft |
| BONANZA 1023-17K4CS | Bonanza 1023-17E3CS BH | 2,217ft |
| BONANZA 1023-17N1BS | Bonanza 1023-17E3CS BH | 2,416ft |
| BONANZA 1023-17N1CS | Bonanza 1023-17E3CS BH | 2,643ft |
| BONANZA 1023-17N4BS | Bonanza 1023-17E3CS BH | 2,888ft |
| BONANZA 1023-17L1CS | Bonanza 1023-17E3CS BH | 803ft |
| BONANZA 1023-17K1BS | Bonanza 1023-17E3CS BH | 1,855ft |
| BONANZA 1023-17L4BS | Bonanza 1023-17E3CS BH | 1,074ft |
| BONANZA 1023-17L4CS | Bonanza 1023-17E3CS BH | 1,371ft |
| BONANZA 1023-17K1CS | Bonanza 1023-17E3CS BH | 1,927ft |
| BONANZA 1023-17M1BS | Bonanza 1023-17E3CS BH | 1,680ft |
| BONANZA 1023-17M1CS | Bonanza 1023-17E3CS BH | 1,996ft |
| BONANZA 1023-17K4BS | Bonanza 1023-17E3CS BH | 2,051ft |
| BONANZA 1023-17M4BS | Bonanza 1023-17E3CS BH | 2,315ft |
| | | _, |

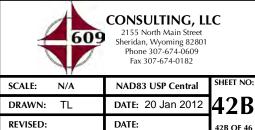
Well locations derived from Utah Division of Oil, Gas and Mining (UDOGM) (oilgas.ogm.utah.gov). The estimated distances from proposed bore locations to the nearest existing bore locations are based on UDOGM data.

WELL PAD - BONANZA 1023-17G

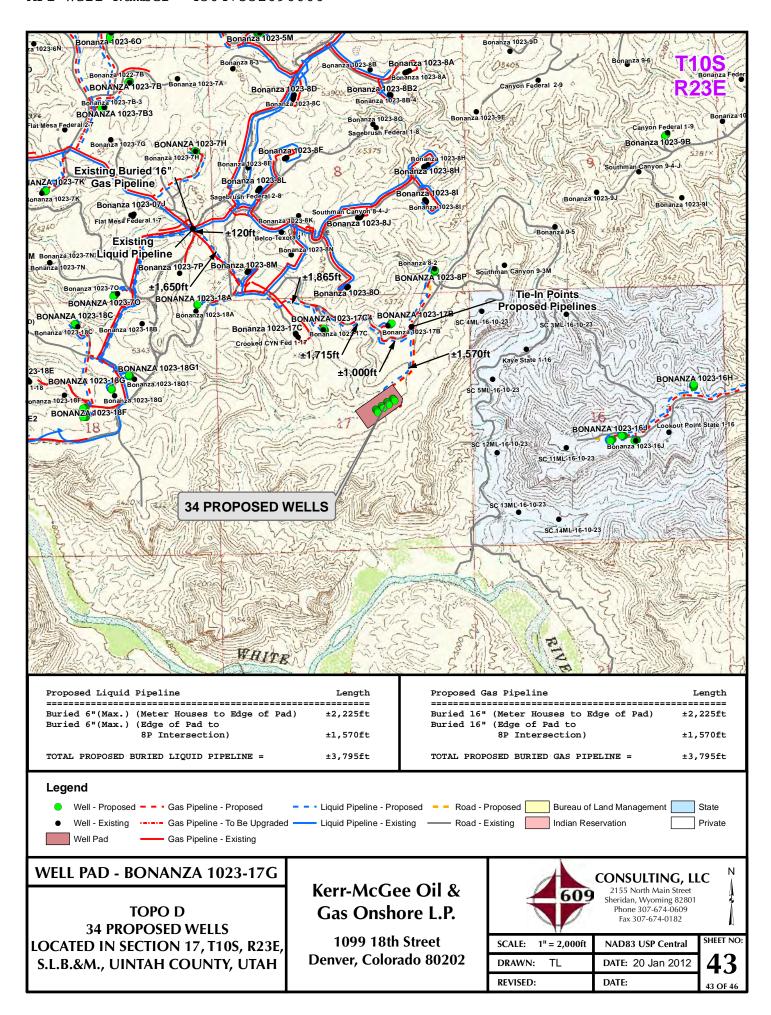
TOPO C 34 PROPOSED WELLS LOCATED IN SECTION 17, T10S, R23E, S.L.B.&M., UINTAH COUNTY, UTAH

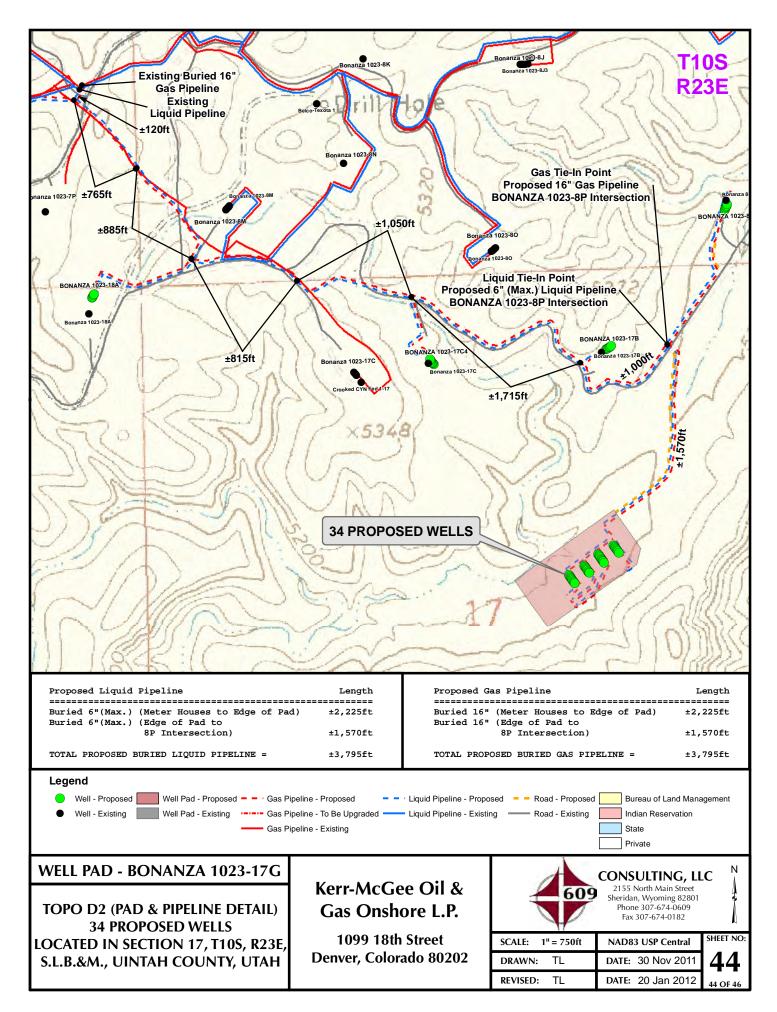
Kerr-McGee Oil & Gas Onshore L.P.

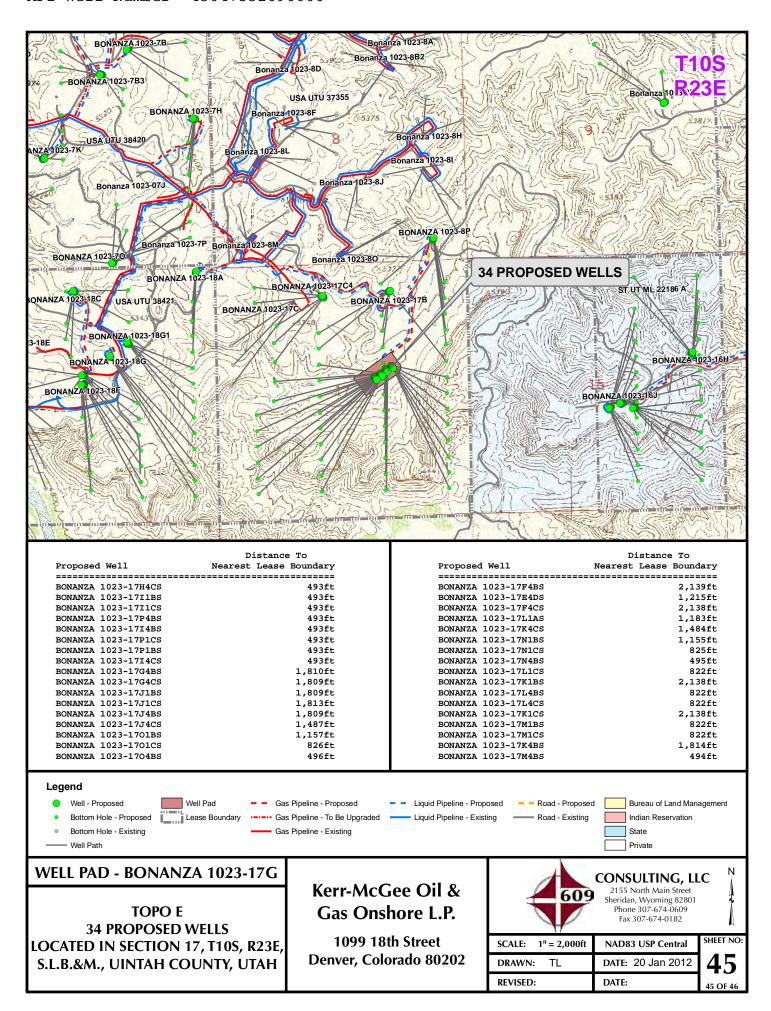
1099 18th Street Denver, Colorado 80202



42B OF 46







Kerr-McGee Oil & Gas Onshore, LP WELL PAD – BONANZA 1023-17G 34 PROPOSED WELLS Section 17, T10S, R23E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Fidlar Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge at the White River. Exit left and proceed in a southeasterly direction along the Fidlar Road approximately 4.4 miles to the intersection of the Seven Sisters Road (County B Road 3420). Exit right and proceed in a southeasterly, then southerly direction along the Seven Sisters Road approximately 6.5 miles to a Class D County Road to the south. Exit right and proceed in a southerly direction along the Class D County Road approximately 0.2 miles to a second Class D County Road to the northeast. Exit left and proceed in a northeasterly, then southeasterly, then northeasterly direction along the second Class D County Road approximately 1.5 miles to the proposed access road to the south. Follow road flags in a southerly direction approximately 1,485 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 50.8 miles in a southerly direction.

SHEET 46 OF 46

API Well Number: 43047 5 2020 2000 OUTAB - UTM (feet), NAD27, Zone 12N

Scientific Drilling

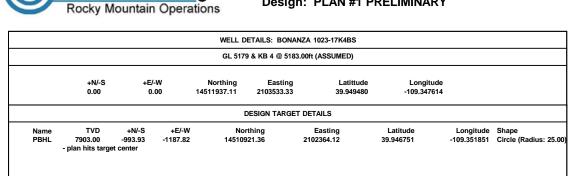
Vertical Section at 230.08° (1500 ft/in)

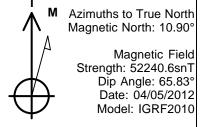
Site: BONANZA 1023-17G PAD Well: BONANZA 1023-17K4BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY



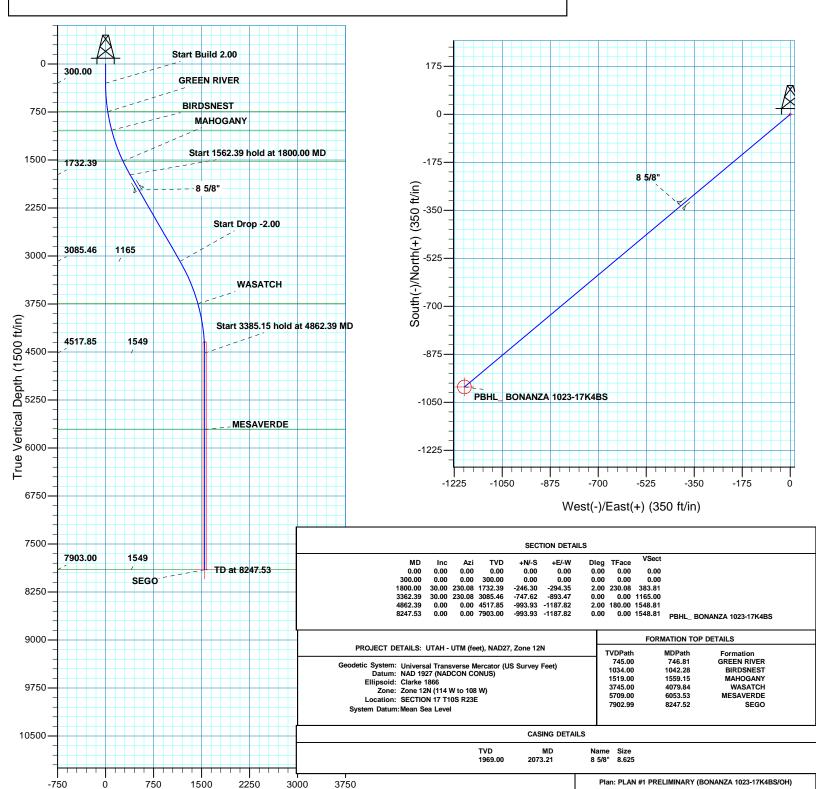




Created By: RobertScott

RECEIVEI

Date: 14:28, April 09 2012





US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N BONANZA 1023-17G PAD BONANZA 1023-17K4BS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

09 April, 2012





SDI Planning Report



EDM5000-RobertS-Local Database:

Company: US ROCKIES REGION PLANNING Project: UTAH - UTM (feet), NAD27, Zone 12N

Site: BONANZA 1023-17G PAD Well: **BONANZA 1023-17K4BS**

Wellbore: ОН

PLAN #1 PRELIMINARY Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BONANZA 1023-17K4BS

GL 5179 & KB 4 @ 5183.00ft (ASSUMED) GL 5179 & KB 4 @ 5183.00ft (ASSUMED)

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System: Universal Transverse Mercator (US Survey Feet)

NAD 1927 (NADCON CONUS) Geo Datum: Map Zone: Zone 12N (114 W to 108 W)

System Datum: Mean Sea Level

BONANZA 1023-17G PAD, SECTION 17 T10S R23E Site

Northing: 14,512,226.99 usft Site Position: Latitude: 39.950260 From: Lat/Long Easting: 2,103,842.82 usft Longitude: -109.346491 **Position Uncertainty:** 0.00 ft Slot Radius: **Grid Convergence:** 1.06 13.200 in

Well BONANZA 1023-17K4BS, 2483 FNL 1959 FEL

Well Position +N/-S -284.09 ft 14,511,937.12 usft Latitude: 39.949480 Northing: +E/-W -314.82 ft Easting: 2,103,533.33 usft Longitude: -109.347614

0.00 ft Wellhead Elevation: **Ground Level:** 5,179.00 ft **Position Uncertainty**

Wellbore ОН Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (nT) (°) (°) IGRF2010 04/05/12 10.90 65.83 52.241

PLAN #1 PRELIMINARY Design Audit Notes: Version: Phase: PLAN Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 230.08

| Plan Sections | | | | | | | | | | |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|----------------------------|---------------------------|------------|----------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,800.00 | 30.00 | 230.08 | 1,732.39 | -246.30 | -294.35 | 2.00 | 2.00 | 0.00 | 230.08 | |
| 3,362.39 | 30.00 | 230.08 | 3,085.46 | -747.62 | -893.47 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,862.39 | 0.00 | 0.00 | 4,517.86 | -993.93 | -1,187.82 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 8,247.53 | 0.00 | 0.00 | 7,903.00 | -993.93 | -1,187.82 | 0.00 | 0.00 | 0.00 | 0.00 PB | HL_ BONANZA 10 |



SDIPlanning Report



Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 BONANZA 1023-17G PAD

 Well:
 BONANZA 1023-17K4BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well BONANZA 1023-17K4BS

GL 5179 & KB 4 @ 5183.00ft (ASSUMED) GL 5179 & KB 4 @ 5183.00ft (ASSUMED)

True

Minimum Curvature

| sign: | PLAN #1 PRE | LIIVIINART | | | | | | | |
|----------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------|----------------------------------------------|
| anned Survey | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.00 100.00 200.00 300.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 100.00 200.00 300.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 |
| Start Build 2. | | 220.00 | 200.00 | 4.40 | 4.24 | 4.75 | 2.00 | 2.00 | 0.00 |
| 400.00 500.00 600.00 700.00 746.81 | 2.00 4.00 6.00 8.00 8.94 | 230.08 230.08 230.08 230.08 230.08 | 399.98 499.84 599.45 698.70 745.00 | -1.12 -4.48 -10.07 -17.89 -22.32 | -1.34 -5.35 -12.04 -21.38 -26.67 | 1.75 6.98 15.69 27.88 34.77 | 2.00 2.00 2.00 2.00 2.00 | 2.00 2.00 2.00 2.00 2.00 | 0.00 0.00 0.00 0.00 0.00 |
| GREEN RIVE | | 200.00 | 740.00 | ZZ.OZ | 20.07 | 04.77 | 2.00 | 2.00 | 0.00 |
| 800.00 900.00 1,000.00 | 10.00 12.00 14.00 | 230.08 230.08 230.08 | 797.47 895.62 993.06 | -27.93 -40.17 -54.61 | -33.38 -48.01 -65.26 | 43.52 62.60 85.10 | 2.00 2.00 2.00 | 2.00 2.00 2.00 | 0.00 0.00 0.00 |
| 1,042.28 BIRDSNEST | 14.85 | 230.08 | 1,034.00 | -61.37 | -73.34 | 95.63 | 2.00 | 2.00 | 0.00 |
| 1,100.00 1,200.00 | 16.00 18.00 | 230.08 230.08 | 1,089.64 1,185.27 | -71.22 -89.98 | -85.11 -107.53 | 110.98 140.21 | 2.00 2.00 | 2.00 2.00 | 0.00 0.00 |
| 1,300.00 1,400.00 1,500.00 1,559.15 | 20.00 22.00 24.00 25.18 | 230.08 230.08 230.08 230.08 | 1,279.82 1,373.17 1,465.21 1,519.00 | -110.87 -133.87 -158.94 -174.74 | -132.50 -159.98 -189.95 -208.83 | 172.77 208.60 247.67 272.29 | 2.00 2.00 2.00 2.00 | 2.00 2.00 2.00 2.00 | 0.00 0.00 0.00 0.00 |
| MAHOGANY | 200 | 200.00 | 1,010.00 | | 200.00 | | 2.00 | 2.00 | 0.00 |
| 1,600.00 | 26.00 | 230.08 | 1,555.84 | -186.06 | -222.36 | 289.93 | 2.00 | 2.00 | 0.00 |
| 1,700.00 1,800.00 | 28.00 30.00 | 230.08 230.08 | 1,644.94 1,732.39 | -215.19 -246.30 | -257.17 -294.35 | 335.33 383.81 | 2.00 2.00 | 2.00 2.00 | 0.00 0.00 |
| | hold at 1800.00 | | 1,1 0=100 | | | | | | |
| 1,900.00 2,000.00 2,073.21 | 30.00 30.00 30.00 | 230.08 230.08 230.08 | 1,819.00 1,905.60 1,969.00 | -278.39 -310.48 -333.97 | -332.70 -371.05 -399.12 | 433.81 483.81 520.41 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 |
| 8 5/8" | | | | | | | | | |
| 2,100.00 2,200.00 2,300.00 2,400.00 2,500.00 | 30.00 30.00 30.00 30.00 30.00 | 230.08 230.08 230.08 230.08 230.08 | 1,992.20 2,078.80 2,165.41 2,252.01 2,338.61 | -342.56 -374.65 -406.74 -438.82 -470.91 | -409.39 -447.74 -486.08 -524.43 -562.78 | 533.81 583.81 633.81 683.81 733.81 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 2,600.00 2,700.00 2,800.00 2,900.00 3,000.00 | 30.00 30.00 30.00 30.00 30.00 | 230.08 230.08 230.08 230.08 230.08 | 2,425.21 2,511.82 2,598.42 2,685.02 2,771.63 | -503.00 -535.09 -567.17 -599.26 -631.35 | -601.12 -639.47 -677.82 -716.16 -754.51 | 783.81 833.81 883.81 933.81 983.81 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 3,100.00 3,200.00 3,300.00 3,362.39 | 30.00 30.00 30.00 30.00 | 230.08 230.08 230.08 230.08 | 2,858.23 2,944.83 3,031.43 3,085.46 | -663.43 -695.52 -727.61 -747.62 | -792.85 -831.20 -869.55 -893.47 | 1,033.81 1,083.81 1,133.81 1,165.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 |
| Start Drop -2. | | 000.00 | 0.415.15 | | 00 | | | | |
| 3,400.00 3,500.00 3,600.00 3,700.00 3,800.00 3,900.00 | 29.25 27.25 25.25 23.25 21.25 19.25 | 230.08 230.08 230.08 230.08 230.08 230.08 | 3,118.16 3,206.24 3,295.93 3,387.10 3,479.65 3,573.47 | -759.56 -789.93 -818.31 -844.66 -868.95 -891.16 | -907.73 -944.02 -977.94 -1,009.44 -1,038.47 -1,065.01 | 1,183.59 1,230.92 1,275.14 1,316.21 1,354.07 1,388.68 | 2.00 2.00 2.00 2.00 2.00 2.00 | -2.00 -2.00 -2.00 -2.00 -2.00 -2.00 | 0.00 0.00 0.00 0.00 0.00 0.00 |
| 4,000.00 | 17.25 | 230.08 | 3,668.43 | -911.26 | -1,089.02 | 1,419.99 | 2.00 | -2.00 | 0.00 |



SDIPlanning Report



Database: Company: EDM5000-RobertS-Local

US ROCKIES REGION PLANNING

 Project:
 UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 BONANZA 1023-17G PAD

 Site:
 BONANZA 1023-17G PAD

 Well:
 BONANZA 1023-17K4BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well BONANZA 1023-17K4BS

GL 5179 & KB 4 @ 5183.00ft (ASSUMED) GL 5179 & KB 4 @ 5183.00ft (ASSUMED)

True

Minimum Curvature

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------------|-------------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 4,079.84 | 15.65 | 230.08 | 3,745.00 | -925.76 | -1,106.36 | 1,442.59 | 2.00 | -2.00 | 0.00 |
| WASATCH | | | | | | | | | |
| 4,100.00 | 15.25 | 230.08 | 3,764.44 | -929.21 | -1,110.48 | 1,447.96 | 2.00 | -2.00 | 0.00 |
| 4,200.00 | 13.25 | 230.08 | 3,861.36 | -945.00 | -1,129.36 | 1,472.57 | 2.00 | -2.00 | 0.00 |
| 4,300.00 | 11.25 | 230.08 | 3,959.07 | -958.62 | -1,145.62 | 1,493.79 | 2.00 | -2.00 | 0.00 |
| | | | | | | | | | |
| 4,400.00 | 9.25 | 230.08 | 4,057.47 | -970.03 | -1,159.27 | 1,511.58 | 2.00 | -2.00 | 0.00 |
| 4,500.00 | 7.25 | 230.08 | 4,156.43 | -979.24 | -1,170.27 | 1,525.92 | 2.00 | -2.00 | 0.00 |
| 4,600.00 | 5.25 | 230.08 | 4,255.84 | -986.22 | -1,178.61 | 1,536.80 | 2.00 | -2.00 | 0.00 |
| 4,700.00 | 3.25 | 230.08 | 4,355.56 | -990.97 | -1,184.29 | 1,544.21 | 2.00 | -2.00 | 0.00 |
| 4,800.00 | 1.25 | 230.08 | 4,455.47 | -993.49 | -1,187.30 | 1,548.13 | 2.00 | -2.00 | 0.00 |
| 4,862.39 | 0.00 | 0.00 | 4,517.86 | -993.93 | -1,187.82 | 1,548.81 | 2.00 | -2.00 | 0.00 |
| | 5 hold at 4862.39 | | 1,011100 | | ., | 1,010101 | | =.00 | |
| 4,900.00 | 0.00 | 0.00 | 4,555.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 0.00 | 0.00 | 4,655.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 0.00 | 0.00 | 4,755.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 0.00 | 0.00 | 4,855.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 5,300.00 | 0.00 | 0.00 | 4,955.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 0.00 | 0.00 | 5,055.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 0.00 | 0.00 | 5,155.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 0.00 | 0.00 | 5,255.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 0.00 | 0.00 | 5,355.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 0.00 | 0.00 | 5,455.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 0.00 | 0.00 | 5,555.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 0.00 | 0.00 | 5,655.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 6,053.53 | 0.00 | 0.00 | 5,709.00 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 3,709.00 | -993.93 | -1,107.02 | 1,540.01 | 0.00 | 0.00 | 0.00 |
| MESAVERD 6,100.00 | 0.00 | 0.00 | 5,755.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 0,100.00 | | | 3,733.47 | -993.93 | -1,107.02 | 1,540.01 | 0.00 | | 0.00 |
| 6,200.00 | 0.00 | 0.00 | 5,855.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 0.00 | 0.00 | 5,955.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 0.00 | 0.00 | 6,055.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 0.00 | 0.00 | 6,155.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 0.00 | 0.00 | 6,255.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 0.700.00 | 0.00 | 0.00 | 0.055.47 | 002.02 | 4.407.00 | 4.540.04 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 0.00 | 0.00 | 6,355.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 0.00 | 0.00 | 6,455.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 0.00 | 0.00 | 6,555.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 0.00 | 0.00 | 6,655.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 0.00 | 0.00 | 6,755.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 0.00 | 0.00 | 6,855.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 0.00 | 0.00 | 6,955.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 0.00 | 0.00 | 7,055.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 0.00 | 0.00 | 7,155.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 0.00 | 0.00 | 7,255.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| | | | , | | | | | | |
| 7,700.00 | 0.00 | 0.00 | 7,355.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 0.00 | 0.00 | 7,455.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 0.00 | 0.00 | 7,555.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 0.00 | 0.00 | 7,655.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 0.00 | 0.00 | 7,755.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 0.00 | 0.00 | 7,855.47 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| 8,247.52 | 0.00 | 0.00 | 7,902.99 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| SEGO | | | | | | | | | |
| 8,247.53 | 0.00 | 0.00 | 7,903.00 | -993.93 | -1,187.82 | 1,548.81 | 0.00 | 0.00 | 0.00 |
| | 0.00 53 - PBHL_ BONA | 0.00 | 1,505.00 | 333.33 | 1,107.02 | 1,0-0.01 | 0.00 | 0.00 | 0.00 |

RECEIVED: August 21, 2012



SDIPlanning Report



Database: Company: EDM5000-RobertS-Local

US ROCKIES REGION PLANNING

 Project:
 UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 BONANZA 1023-17G PAD

Well: BONANZA 1023-17K4BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well BONANZA 1023-17K4BS

GL 5179 & KB 4 @ 5183.00ft (ASSUMED) GL 5179 & KB 4 @ 5183.00ft (ASSUMED)

True

Minimum Curvature

| Design Targets | | | | | | | | | |
|-------------------------------------------------------------------|------------------|-----------------|-------------|---------------|---------------|--------------------|-------------------|-----------|-------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| PBHL_ BONANZA 1023 - plan hits target cent - Circle (radius 25.00 | | 0.00 | 7,903.00 | -993.93 | -1,187.82 | 14,510,921.36 | 2,102,364.12 | 39.946751 | -109.351851 |

| Casing Points | | | | | | | |
|---------------|-------------------|-------------------|--------|------|--------------------|------------------|--|
| | Measured Depth | Vertical Depth | | | Casing Diameter | Hole Diameter | |
| | (ft) | (ft) | | Name | (in) | (in) | |
| | 2,073.21 | 1,969.00 | 8 5/8" | | 8.625 | 11.000 | |

| Formations | | | | | | |
|------------|---------------------------|---------------------------|-------------|-----------|------------|-------------------------|
| | Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| | 746.81 | 745.00 | GREEN RIVER | | | |
| | 1,042.28 | 1,034.00 | BIRDSNEST | | | |
| | 1,559.15 | 1,519.00 | MAHOGANY | | | |
| | 4,079.84 | 3,745.00 | WASATCH | | | |
| | 6,053.53 | 5,709.00 | MESAVERDE | | | |
| | 8,247.52 | 7,902.99 | SEGO | | 0.00 | |

| Plan Annotations | | | | |
|------------------|----------|-------------|-----------|----------------------------------|
| Measured | Vertical | Local Coord | dinates | |
| Depth | Depth | +N/-S | +E/-W | |
| (ft) | (ft) | (ft) | (ft) | Comment |
| 300.00 | 300.00 | 0.00 | 0.00 | Start Build 2.00 |
| 1,800.00 | 1,732.39 | -246.30 | -294.35 | Start 1562.39 hold at 1800.00 MD |
| 3,362.39 | 3,085.46 | -747.62 | -893.47 | Start Drop -2.00 |
| 4,862.39 | 4,517.86 | -993.93 | -1,187.82 | Start 3385.15 hold at 4862.39 MD |
| 8,247.53 | 7,903.00 | -993.93 | -1,187.82 | TD at 8247.53 |



SDIPlanning Report



Database: Company: Project: EDM5000-RobertS-Local

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 BONANZA 1023-17G PAD

 Well:
 BONANZA 1023-17K1CS

Well: Wellbore:

OH

Design:

PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well BONANZA 1023-17K1CS

GL 5179 & KB 4 @ 5183.00ft (ASSUMED) GL 5179 & KB 4 @ 5183.00ft (ASSUMED)

True

Minimum Curvature

| Design Targets | | | | | | | | | |
|-------------------------------------------------------------------------|------------------|-----------------|-------------|---------------|---------------|--------------------|-------------------|-----------|-------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| PBHL_BONANZA 1023- - plan hits target cent - Circle (radius 25.00 | | 0.00 | 7,917.00 | -688.71 | -1,169.86 | 14,511,251.31 | 2,102,359.43 | 39.947657 | -109.351846 |

| Casing Points | | | | | | | |
|---------------|-------------------|-------------------|--------|------|--------------------|------------------|--|
| | Measured Depth | Vertical Depth | | | Casing Diameter | Hole Diameter | |
| | (ft) | (ft) | | Name | (in) | (in) | |
| | 2,062.45 | 1,980.00 | 8 5/8" | | 8.625 | 11.000 | |

| Formations | | | | | | |
|------------|---------------------------|---------------------------|-------------|-----------|------------|-------------------------|
| | Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| | 761.94 | 754.00 | GREEN RIVER | | | |
| | 1,065.31 | 1,043.00 | BIRDSNEST | | | |
| | 1,583.57 | 1,530.00 | MAHOGANY | | | |
| | 3,953.49 | 3,757.00 | WASATCH | | | |
| | 5,941.81 | 5,723.00 | MESAVERDE | | | |
| | 8,135.80 | 7,916.99 | SEGO | | 0.00 | |

| Plan Annotations | | | | |
|------------------|----------|------------|-----------|----------------------------------|
| Measured | Vertical | Local Coor | dinates | |
| Depth | Depth | +N/-S | +E/-W | |
| (ft) | (ft) | (ft) | (ft) | Comment |
| 30.00 | 30.00 | 0.00 | 0.00 | Start Build 2.00 |
| 1,030.00 | 1,009.82 | -87.65 | -148.88 | Start 2958.89 hold at 1030.00 MD |
| 3,988.89 | 3,790.27 | -601.06 | -1,020.98 | Start Drop -2.00 |
| 4,988.89 | 4,770.08 | -688.71 | -1,169.86 | Start 3146.92 hold at 4988.89 MD |
| 8,135.81 | 7,917.00 | -688.71 | -1,169.86 | TD at 8135.81 |

Kerr-McGee Oil & Gas Onshore. L.P. BONANZA 1023-17G PAD

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced well pad.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on March 22, 2012. Present were:

- David Gordon, Dan Emmett, Melissa Wardle BLM;
- Jacob Dunham 609 Consulting;
- John Slaugh, Mitch Batty Timberline Engineering & Land Surveying, Inc.; and
- Danielle Piernot, Doyle Holmes, Dave Gomendi, Sheila Wopsock, Rod Anderson, Tim Kalus, Tom Lee Kerr-McGee

A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BLM. BMPs. Described in the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book) (USDI and USDA, 2007) and/or BLM Manual Section 9113 (1985) will be considered in consultation with the BLM in the design, construction, improvement and maintenance of all new or reconstructed roads. If a new road would cross a water of the United States, Kerr-McGee will adhere to the requirements of applicable Nationwide Permits of the Department of Army Corps of Engineers.

Each new well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts,

Surface Use Plan of Operations

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Bonanza 1023-17G Pad

bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s), as necessary.

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

The following road segments are "on-lease"

±1,495' (0.3 miles) – Section 17 T10S R23E (NE/4) – On-lease UTU-37355, BLM Surface, proposed new access road. Please refer to Topo B.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

Division of Oil, Gas and Mining (UDOGM) records show no drilled locations on this pad. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of

Surface Use Plan of Operations

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Bonanza 1023-17G Pad

compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accomodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with the BLM (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

GAS GATHERING

Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent). The total buried gas gathering pipeline distance from the meter to the tie in point is $\pm 2,225$. The individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±2,225' (0.4 miles) – Section 17 T10S R23E (SW/4 NE/4) – On-lease UTU-37355, BLM surface, New 16" buried gas gathering pipeline from the meter to the edge of the pad.

The proposed pipeline will then tie into a previously proposed 16" buried gas pipeline filed under separate cover by AUM. Please refer to Topo D2 - Pad and Pipeline Detail and Exhibit A.

LIQUID GATHERING

Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail. The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 2,225$ ' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±2,225' (0.4 miles) – Section 17 T10S R23E (SW/4 NE/4) – On-lease UTU-37355, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. The proposed pipeline will then tie into a previously proposed 6" buried main gathering liquid pipeline filed under separate cover by KMOG. Please refer to Topo D2 - Pad and Pipeline Detail and Exhibit B.

Pipeline Gathering Construction

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee. Gas gathering pipeline(s,) gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45 ft for buried lines and 30 ft for surface lines. In addition, Kerr-McGee requests for a permanent 30' distrubance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent distrubance width is for maintenance and repairs. Cross country permanent distrubance width also are required to be 30ft.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may

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vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface.

Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, Kerr-McGee or it's successor will consult with the BLM, Vernal Field Office before terminating of the use of the pipeline(s).

The Anadarko Completions Transportation System (ACTS) information:

Please refer to Exhibit C for ACTs Lines

Kerr-McGee will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit is lined and will be used for the wells drilled on the pad or used as part of our Anadarko Completions Transportation (ACTS) system which is disussed in more detail below. Using the

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Bonanza 1023-17G Pad

closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completion pit.

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use is completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit will be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows when a traditional drill pit is used: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

Any hydrocarbons collected will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit.

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. Kerr-McGee understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources:

| Permit # 49-2307 | JD Field Services | Green River- Section 15, T2N, R22E |
|------------------|-------------------|------------------------------------|
| Permit # 49-2321 | R.N. Industries | White River- Section 2, T10S, R24E |
| Permit # 49-2319 | R.N. Industries | White River- Various Sources |
| Permit # 49-2320 | R.N. Industries | Green River- Section 33, T8S, R23E |

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from federal

lands without prior approval from the BLM. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BLM.

G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BLM, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluic will be contained in the reserve/frac pit whether a closed loop system is used or not. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BLM, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a reserve/completion pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BLM.

Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during

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Bonanza 1023-17G Pad

construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E NBU #159 in Sec. 35 T9S R21E Ace Oilfield in Sec. 2 T6S R20E

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Bonanza 1023-17G Pad

MC&MC in Sec. 12 T6S R19E Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E CIGE 112D SWD in Sec. 19 T9S R21E CIGE 114 SWD in Sec. 34 T9S R21E NBU 921-34K SWD in Sec. 34 T9S R21E NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of distrubance will not exceed the maximum disturbance outlined in the attached exhibits.

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/ Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BLM.

J. Plans for Surface Reclamation:

The surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. Interim reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification

Surface Use Plan of Operations

9 of 13

Bonanza 1023-17G Pad

will be provided to the BLM for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit. Disposal of pit fluids and linings is discussed in Section G.

Final Reclamation

Final reclamation will be performed for unproductive wells and after the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing location be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by Kerr-McGee. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. The BLM will be notified prior to commencement of reclamation operations. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

Reclamation of roads will be performed at the discretion of the BLM. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications of the BLM.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BLM.

Measures Common to Interim and Final Reclamation

Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeding, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box" in order to seed "fluffy" seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for

re-vegetation. The seed mixes will be selected from a list provided by or approved by the BLM, or a specific seed mix will be proposed by Kerr-McGee to the BLM and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain "cheat grass free seed".

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

| Bonanza Area Mix | Pure Live Seed lbs/acre |
|--------------------------|-------------------------|
| Crested Wheat (Hycrest) | 2 |
| Bottlebrush Squirreltail | 1 |
| Western Wheatgrass | 1 |
| Indian Ricegrass | 1 |
| Fourwing Saltbush | 2 |
| Shadscale | 2 |
| Forage Kochia | 0.25 |
| Rocky Mountain Bee | 0.5 |
| Total | 9.75 |

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage. Soil amendments such as "Sustain" (an organic fertilizer that will be applied at the rate 1,800 – 2,100 lbs/acre with seed) may also be dry broadcast or applied with hydro-seeding equipment.

Weed Control

All weed management will be done in accordance with the Vernal BLM Surface Disturbance Weed Policy. Noxious weeds will be controlled, as applicable, on project areas. Monitoring and management of noxious and/or invasive weeds of concern will be completed annually until the project is deemed successfully reclaimed by the surface management agency and/or owner according to the Anadarko Integrated Weed Management Plan. Noxious weed infestations will be mapped using a GPS unit and submitted to the BLM with information required in the Vernal BLM Surface Disturbance Weed Policy. If herbicide is to be applied it will be done according to an approved Pesticide Use Permit (PUP), inclusive of applicable locations. All pesticide applications will be recorded using a Pesticide Application Record (PAR) and will be submitted along with a Pesticide Use Report (PUR) annually prior to Dec. 31.

Monitoring

Monitoring of reclaimed project areas will be completed annually during the growing season and actions to ensure reclamation success will be taken as needed. During the first two growing seasons an ocular methodology will be used to determine the success of the reclamation activities. During the 3rd growing season a 200 point line intercept (quantitative) methodology will be used to obtain basal cover. The goal is to have the reclaimed area reach 30% basal cover when compared to the reference site. If after three growing seasons the area has not reached 30% basal cover, additional reclamation activities may be necessary. Monitoring will continue until the reclaimed area reaches 75% basal cover of desirable vegetation when compared to the reference site. (Green River District Reclamation Guidelines)

All monitoring reports will be submitted electronically to the Vernal BLM in the form of a geo-database no later than March 1st of the calendar year following the data collection.

K. Surface/Mineral Ownership:

United States of America Bureau of Land Management 170 South 500 East Vernal, UT 84078 (435)781-4400

L. Other Information:

Onsite Specifics:

- Place Topsoil stockpile behind excess stockpile at corner 3.
- Place excess material stockpile, rather than topsoil stockpile, at corners 1 & 2. Hold back from toe of fill slope to allow storm water to run off pad.
- Construct diversion ditch from Corner 4 to Corner 2, then to fill area east of corner 1. Install culvert beneath access road.
- Place Topsoil stockpile behind Excess stockpile at corner 8.
- To allow for runoff, hold Excess stockpile back from toe of slope at corners 7, 8 & 9.
- Trim Corner 9, 40' toward corner 8 to maintain separation of pad slope from existing drainage.
- Can slide cuttings collection area toward corner 8 & elongate if needed.
- During drilling, a road will run from corner 4 to corner 2. During reclamation, move road westerly to run close to pit corners E & A.
- Access road crosses several small drainages. At the second drainage from road beginning, install
 culvert or construct low water crossing as needed. construct low water crossings at all other drainages.

Cultural and Paleontological Resources

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BLM.

Resource Reports:

A Class I literature survey was completed on January 25, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 11-371.

A paleontological reconnaissance survey was completed in November, 2011 by SWCA Environmental Consultants. For additional details please refer to report UT11-14314-194, report UT12-14314-126 and report UT12-14314-125.

Biological field survey was completed in November, 2011 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-674 and report GCI-671.

Proposed Action Annual Emissions Tables:

| Table 1: Proposed Action Annual Emissions (tons/year) ¹ | | | | | |
|--------------------------------------------------------------------|-------------|------------|----------|--|--|
| Pollutant | Development | Production | Total | | |
| NOx | 3.8 | 0.12 | 3.92 | | |
| CO | 2.2 | 0.11 | 2.31 | | |
| VOC | 0.1 | 10.94 | 11.04 | | |
| SO_2 | 0.005 | 0.00 | 0.01 | | |
| PM_{10} | 1.7 | 0.11 | 1.81 | | |
| PM _{2.5} | 0.4 | 0.03 | 0.43 | | |
| Benzene | 2.2E-03 | 0.08 | 0.09 | | |
| Toluene | 1.6E-03 | 0.13 | 0.14 | | |
| Ethylbenzene | 3.4E-04 | 0.00 | 0.00 | | |
| Xylene | 1.1E-03 | 0.06 | 0.06 | | |
| n-Hexane | 1.7E-04 | 0.34 | 0.34 | | |
| Formaldehyde | 1.3E-02 | 8.64E-05 | 1.31E-02 | | |

¹ Emissions include 1 producing well and associated operations traffic during the year in

which the project is developed

| Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison | | | | | |
|------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------|--|--|
| Species | Proposed Action Production Emissions (ton/yr) | WRAP Phase III 2012 Uintah Basin Emission Inventory ^a (ton/yr) | Percentage of Proposed Action to WRAP Phase III | | |
| NOx | 133.28 | 16,547 | 0.81% | | |
| VOC | 375 45826 | 127 495 | 0.29% | | |

 $[^]a\ http://www.wrapair.org/forums/ogwg/Phase III_Inventory.html$

Uintah Basin Data

M. Lessee's or Operators' Representative & Certification:

Danielle Piernot Regulatory Analyst II Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6156 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

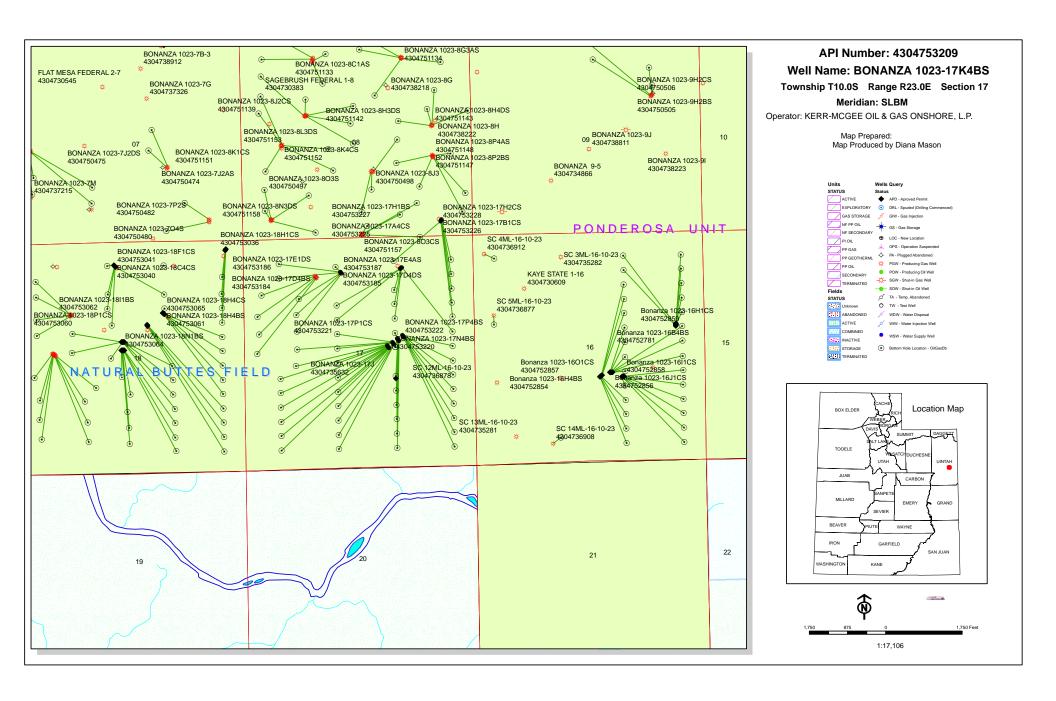
The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Danielle Piernot Date



API Well Number: 43047532090000

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

October 2, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Ponderosa Unit

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2012 within the Ponderosa Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

Pad 1023-17B

43-047-53177 BONANZA 1023-17F1BS Sec 17 T10S R23E 0671 FNL 1665 FEL BHL Sec 17 T10S R23E 1483 FNL 2139 FWL Sec 17 T10S R23E 0665 FNL 1656 FEL 43-047-53178 BONANZA 1023-17F1CS BHL Sec 17 T10S R23E 1813 FNL 2139 FWL 43-047-53179 BONANZA 1023-17G1BS Sec 17 T10S R23E 0654 FNL 1640 FEL BHL Sec 17 T10S R23E 1486 FNL 1810 FEL 43-047-53180 BONANZA 1023-17G1CS Sec 17 T10S R23E 0649 FNL 1631 FEL BHL Sec 17 T10S R23E 1816 FNL 1810 FEL 43-047-53181 BONANZA 1023-17H4BS Sec 17 T10S R23E 0644 FNL 1623 FEL BHL Sec 17 T10S R23E 2150 FNL 0493 FEL Pad 1023-17C4 43-047-53182 BONANZA 1023-17C1CS Sec 17 T10S R23E 0707 FNL 2230 FWL BHL Sec 17 T10S R23E 0595 FNL 2125 FWL 43-047-53183 BONANZA 1023-17D1CS Sec 17 T10S R23E 0715 FNL 2235 FWL BHL Sec 17 T10S R23E 0494 FNL 0823 FWL 43-047-53184 BONANZA 1023-17D4BS Sec 17 T10S R23E 0723 FNL 2241 FWL BHL Sec 17 T10S R23E 0822 FNL 0823 FWL 43-047-53185 BONANZA 1023-17D4DS Sec 17 T10S R23E 0732 FNL 2247 FWL

RECEIVED: October 02, 2012

BHL Sec 17 T10S R23E 1304 FNL 1267 FWL

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

Pad 1023-17C4

43-047-53186 BONANZA 1023-17E1DS Sec 17 T10S R23E 0740 FNL 2253 FWL BHL Sec 17 T10S R23E 1673 FNL 1205 FWL

43-047-53187 BONANZA 1023-17E4AS Sec 17 T10S R23E 0748 FNL 2259 FWL BHL Sec 17 T10S R23E 2057 FNL 1216 FWL

Pad 1023-17G

BHL Sec 17 T10S R23E 2148 FSL 1813 FEL

Page 2

43-047-53189 BONANZA 1023-17E4DS Sec 17 T10S R23E 2363 FNL 1871 FEL BHL Sec 17 T10S R23E 2466 FNL 1215 FWL

43-047-53190 BONANZA 1023-17F4BS Sec 17 T10S R23E 2355 FNL 1877 FEL BHL Sec 17 T10S R23E 2143 FNL 2139 FWL

43-047-53191 BONANZA 1023-17F4CS Sec 17 T10S R23E 2372 FNL 1865 FEL

BHL Sec 17 T10S R23E 2472 FNL 2138 FWL

43-047-53192 BONANZA 1023-17G4BS Sec 17 T10S R23E 2269 FNL 1766 FEL

BHL Sec 17 T10S R23E 2146 FNL 1810 FEL

43-047-53194 BONANZA 1023-17G4CS Sec 17 T10S R23E 2278 FNL 1760 FEL

BHL Sec 17 T10S R23E 2476 FNL 1809 FEL

43-047-53195 BONANZA 1023-17H4CS Sec 17 T10S R23E 2200 FNL 1644 FEL BHL Sec 17 T10S R23E 2480 FNL 0493 FEL

43-047-53196 BONANZA 1023-17I1BS Sec 17 T10S R23E 2208 FNL 1639 FEL

BHL Sec 17 T10S R23E 2482 FSL 0493 FEL

43-047-53197 BONANZA 1023-17I1CS Sec 17 T10S R23E 2217 FNL 1633 FEL BHL Sec 17 T10S R23E 2151 FSL 0493 FEL

43-047-53198 BONANZA 1023-1714BS Sec 17 T10S R23E 2233 FNL 1622 FEL BHL Sec 17 T10S R23E 1820 FSL 0493 FEL

43-047-53199 BONANZA 1023-17I4CS Sec 17 T10S R23E 2258 FNL 1605 FEL

BHL Sec 17 T10S R23E 1489 FSL 0493 FEL

43-047-53200 BONANZA 1023-17J1BS Sec 17 T10S R23E 2286 FNL 1755 FEL

BHL Sec 17 T10S R23E 2478 FSL 1809 FEL

43-047-53201 BONANZA 1023-17J4BS Sec 17 T10S R23E 2303 FNL 1744 FEL BHL Sec 17 T10S R23E 1817 FSL 1809 FEL

43-047-53202 BONANZA 1023-17J4CS Sec 17 T10S R23E 2311 FNL 1738 FEL

BHL Sec 17 T10S R23E 1487 FSL 1808 FEL

43-047-53203 BONANZA 1023-17K1BS Sec 17 T10S R23E 2433 FNL 1993 FEL

BHL Sec 17 T10S R23E 2474 FSL 2138 FWL

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

Pad 1023-17G

43-047-53204 BONANZA 1023-17L1AS Sec 17 T10S R23E 2380 FNL 1860 FEL

BHL Sec 17 T10S R23E 2422 FSL 1183 FWL

43-047-53205 BONANZA 1023-17L1CS Sec 17 T10S R23E 2424 FNL 1998 FEL

BHL Sec 17 T10S R23E 2140 FSL 0822 FWL

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43-047-53206 BONANZA 1023-17L4BS Sec 17 T10S R23E 2441 FNL 1987 FEL

BHL Sec 17 T10S R23E 1811 FSL 0822 FWL

43-047-53207 BONANZA 1023-17L4CS Sec 17 T10S R23E 2449 FNL 1982 FEL

BHL Sec 17 T10S R23E 1482 FSL 0822 FWL

43-047-53208 BONANZA 1023-17K1CS Sec 17 T10S R23E 2458 FNL 1976 FEL

BHL Sec 17 T10S R23E 2144 FSL 2138 FWL

43-047-53209 BONANZA 1023-17K4BS Sec 17 T10S R23E 2483 FNL 1959 FEL

BHL Sec 17 T10S R23E 1814 FSL 2138 FWL

43-047-53210 BONANZA 1023-17K4CS Sec 17 T10S R23E 2388 FNL 1854 FEL

BHL Sec 17 T10S R23E 1484 FSL 2137 FWL

43-047-53211 BONANZA 1023-17M1BS Sec 17 T10S R23E 2466 FNL 1971 FEL

BHL Sec 17 T10S R23E 1153 FSL 0822 FWL

43-047-53212 BONANZA 1023-17M1CS Sec 17 T10S R23E 2474 FNL 1965 FEL

BHL Sec 17 T10S R23E 0823 FSL 0822 FWL

43-047-53213 BONANZA 1023-17M4BS Sec 17 T10S R23E 2491 FNL 1954 FEL

BHL Sec 17 T10S R23E 0494 FSL 0822 FWL

43-047-53214 BONANZA 1023-17N1BS Sec 17 T10S R23E 2397 FNL 1849 FEL

BHL Sec 17 T10S R23E 1155 FSL 2137 FWL

43-047-53215 BONANZA 1023-1701BS Sec 17 T10S R23E 2319 FNL 1732 FEL

BHL Sec 17 T10S R23E 1157 FSL 1808 FEL

43-047-53216 BONANZA 1023-1701CS Sec 17 T10S R23E 2328 FNL 1727 FEL

BHL Sec 17 T10S R23E 0826 FSL 1808 FEL

43-047-53217 BONANZA 1023-1704BS Sec 17 T10S R23E 2336 FNL 1721 FEL

BHL Sec 17 T10S R23E 0496 FSL 1808 FEL

43-047-53218 BONANZA 1023-17P1BS Sec 17 T10S R23E 2250 FNL 1611 FEL

BHL Sec 17 T10S R23E 1158 FSL 0493 FEL

43-047-53219 BONANZA 1023-17N1CS Sec 17 T10S R23E 2405 FNL 1843 FEL

BHL Sec 17 T10S R23E 0825 FSL 2137 FWL

43-047-53220 BONANZA 1023-17N4BS Sec 17 T10S R23E 2413 FNL 1838 FEL

BHL Sec 17 T10S R23E 0495 FSL 2136 FWL

43-047-53221 BONANZA 1023-17P1CS Sec 17 T10S R23E 2242 FNL 1616 FEL

BHL Sec 17 T10S R23E 0827 FSL 0493 FEL

| API # | WELL | NAME | | | LOCAT | ION | | |
|-----------------------------|----------|--------------|---|--|-------|--------------|--|--|
| (Proposed PZ Pad 1023-17G | WASATCH- | -MESA VERDE) |) | | | | | |
| 43-047-53222 | BONANZA | | | | | R23E R23E | | |
| Pad 1023-8P 43-047-53223 | BONANZA | 1023-17A1CS | | | | R23E R23E | | |
| 43-047-53224 | BONANZA | 1023-17A4BS | | | | R23E R23E | | |
| 43-047-53225 | BONANZA | 1023-17A4CS | | | | R23E R23E | | |
| 43-047-53226 | BONANZA | 1023-17B1CS | | | | R23E R23E | | |
| 43-047-53227 | BONANZA | 1023-17Н1В | | | | R23E R23E | | |
| 43-047-53228 Pad 1023-7B | BONANZA | | | | | R23E R23E | | |
| 43-047-53233 | BONANZA | 1023-7A1CS | | | | R23E R23E | | |
| 43-047-53234 | BONANZA | 1023-7B1BS | | | | R23E R23E | | |
| 43-047-53235 | BONANZA | 1023-7B1CS | | | | R23E R23E | | |
| 43-047-53236 | BONANZA | 1023-7H1BS | | | | R23E R23E | | |
| 43-047-53237 | BONANZA | | | | | R23E R23E | | |
| Pad 1023-7B3 | | | | | | | | |
| 43-047-53238 | BONANZA | | | | | R23E R23E | | |
| 43-047-53239 | BONANZA | | | | | R23E R23E | | |
| 43-047-53240 | BONANZA | 1023-7C4CS | | | | R23E R23E | | |
| 43-047-53241 | BONANZA | | | | | R23E R23E | | |
| 43-047-53242 | BONANZA | | | | | R23E R23E | | |

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Page 5

| API # | WELL | NAME | | | LOCAT | ION | | |
|-----------------------------|----------|--------------|---|--|--------------|-----|--|--|
| (Proposed PZ Pad 1023-7B3 | WASATCH- | -MESA VERDE) |) | | | | | |
| 43-047-53243 | BONANZA | 1023-7G1CS | | | | | | |
| Pad 1023-7D 43-047-53245 | BONANZA | 1023-7D1BS | | | | | | |
| 43-047-53246 | BONANZA | 1023-7D1CS | | | | | | |
| 43-047-53247 | BONANZA | 1023-7D4CS | | | | | | |
| 43-047-53248 | BONANZA | 1023-7E1BS | | | | | | |
| 43-047-53249 | BONANZA | 1023-7E1CS | | | | | | |
| Pad 1023-7H 43-047-53250 | BONANZA | 1023-7H4CS | | | | | | |
| 43-047-53251 | BONANZA | 1023-7I1BS | | | | | | |
| 43-047-53252 | BONANZA | 1023-7I1CS | | | | | | |
| 43-047-53253 | BONANZA | 1023-7I4BS | | | | | | |
| 43-047-53256 | BONANZA | 1023-7I4CS | | | | | | |
| Pad 1023-7K 43-047-53254 | BONANZA | | | | T10S T10S | | | |
| 43-047-53255 | BONANZA | 1023-7E4BS | | | T10S T10S | | | |
| 43-047-53257 | BONANZA | 1023-7E4CS | | | T10S T10S | | | |
| 43-047-53258 | BONANZA | 1023-7F4BS | | | T10S T10S | | | |
| 43-047-53259 | BONANZA | 1023-7K1BS | | | T10S T10S | | | |
| 43-047-53260 | BONANZA | | | | T10S T10S | | | |

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE) Pad 1023-7M 43-047-53261 BONANZA 1023-7K3AS Sec 07 T10S R23E 1103 FSL 0498 FWL BHL Sec 07 T10S R23E 1654 FSL 1919 FWL 43-047-53262 BONANZA 1023-7L1CS Sec 07 T10S R23E 1100 FSL 0488 FWL BHL Sec 07 T10S R23E 2134 FSL 0829 FWL Sec 07 T10S R23E 1097 FSL 0479 FWL 43-047-53263 BONANZA 1023-7M4BS BHL Sec 07 T10S R23E 0415 FSL 0824 FWL 43-047-53264 BONANZA 1023-7M4CS Sec 07 T10S R23E 1094 FSL 0470 FWL BHL Sec 07 T10S R23E 0088 FSL 0817 FWL Pad 1023-70 43-047-53265 BONANZA 1023-701CS Sec 07 T10S R23E 0081 FSL 2127 FEL BHL Sec 07 T10S R23E 0746 FSL 1818 FEL 43-047-53266 BONANZA 1023-7N4CS Sec 07 T10S R23E 0072 FSL 2145 FEL BHL Sec 07 T10S R23E 0183 FSL 2152 FWL 43-047-53267 BONANZA 1023-702AS Sec 07 T10S R23E 0077 FSL 2136 FEL BHL Sec 07 T10S R23E 1298 FSL 2010 FEL 43-047-53268 BONANZA 1023-7P1BS Sec 07 T10S R23E 0086 FSL 2118 FEL BHL Sec 07 T10S R23E 1242 FSL 0493 FEL 43-047-53269 BONANZA 1023-7P1CS Sec 07 T10S R23E 0095 FSL 2100 FEL BHL Sec 07 T10S R23E 0911 FSL 0494 FEL 43-047-53270 BONANZA 1023-7P4BS Sec 07 T10S R23E 0090 FSL 2109 FEL BHL Sec 07 T10S R23E 0579 FSL 0493 FEL

This office has no objection to permitting the wells at this time.



bcc: File - Ponderosa Unit

Division of Oil Gas and Mining

Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:10-2-12

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| 43-047-53177 43-047-53178 43-047-53179 43-047-53180 | BONANZA 1023-17F1BS BONANZA 1023-17F1CS BONANZA 1023-17G1BS BONANZA 1023-17G1CS | Sec 17 Sec 17 | T10S R23E | 0671 FNL 1665 FEL |
|--------------------------------------------------------------|---------------------------------------------------------------------------------|------------------|------------------------|----------------------------------------|
| 43-047-53179 43-047-53180 | BONANZA 1023-17G1BS | | T10S R23E | OCCE EN! 4CEC EE! |
| 43-047-53180 | BONANZA 1023-17G1BS | | | 0665 FNL 1656 FEL |
| | | Sec 17 | T10S R23E | 0654 FNL 1640 FEL |
| 42 047 52101 | | Sec 17 | T10S R23E | 0649 FNL 1631 FEL |
| 43-047-53181 | BONANZA 1023-17H4BS | Sec 17 | T10S R23E | 0644 FNL 1623 FEL |
| 43-047-53182 | BONANZA 1023-17C1CS | Sec 17 | T10S R23E | 0707 FNL 2230 FWL |
| 43-047-53183 | BONANZA 1023-17D1CS | Sec 17 | T10S R23E | 0715 FNL 2235 FWL |
| 43-047-53184 | BONANZA 1023-17D4BS | Sec 17 | T10S R23E | 0723 FNL 2241 FWL |
| 43-047-53185 | BONANZA 1023-17D4DS | Sec 17 | T10S R23E | 0732 FNL 2247 FWL |
| 43-047-53186 | BONANZA 1023-17E1DS | Sec 17 | T10S R23E | 0740 FNL 2253 FWL |
| 43-047-53187 | BONANZA 1023-17E4AS | Sec 17 | T10S R23E | 0748 FNL 2259 FWL |
| 43-047-53188 | BONANZA 1023-17J1CS | Sec 17 | T10S R23E | 2294 FNL 1749 FEL |
| 43-047-53189 | BONANZA 1023-17E4DS | Sec 17 | T10S R23E | 2363 FNL 1871 FEL |
| 43-047-53190 | BONANZA 1023-17F4BS | Sec 17 | T10S R23E | 2355 FNL 1877 FEL |
| 43-047-53191 | BONANZA 1023-17F4CS | Sec 17 | T10S R23E | 2372 FNL 1865 FEL |
| 43-047-53192 | BONANZA 1023-17G4BS | Sec 17 | T10S R23E | 2269 FNL 1766 FEL |
| 43-047-53194 | BONANZA 1023-17G4CS | Sec 17 | T10S R23E | 2278 FNL 1760 FEL |
| 43-047-53195 | BONANZA 1023-17H4CS | Sec 17 | T10S R23E | 2200 FNL 1644 FEL |
| 43-047-53196 | BONANZA 1023-17I1BS | Sec 17 | T10S R23E | 2208 FNL 1639 FEL |
| 43-047-53197 | BONANZA 1023-17I1CS | Sec 17 | T10S R23E | 2217 FNL 1633 FEL |
| 43-047-53198 | BONANZA 1023-17I4BS | Sec 17 | T10S R23E | 2233 FNL 1622 FEL |
| 43-047-53199 | BONANZA 1023-17I4CS | Sec 17 | T10S R23E | 2258 FNL 1605 FEL |
| 43-047-53200 | BONANZA 1023-17J1BS | Sec 17 | T10S R23E | 2286 FNL 1755 FEL |
| 43-047-53201 | BONANZA 1023-17J4BS | Sec 17 | T10S R23E | 2303 FNL 1744 FEL |
| 43-047-53202 | BONANZA 1023-17J4CS | Sec 17 | T10S R23E | 2311 FNL 1738 FEL |
| 43-047-53203 | BONANZA 1023-17K1BS | Sec 17 | T10S R23E | 2433 FNL 1993 FEL |
| 43-047-53204 | BONANZA 1023-17L1AS | Sec 17 | T10S R23E | 2380 FNL 1860 FEL |
| 43-047-53205 | BONANZA 1023-17L1CS | Sec 17 | T10S R23E | 2424 FNL 1998 FEL |
| 43-047-53206 | BONANZA 1023-17L4BS | Sec 17 | T10S R23E | 2441 FNL 1987 FEL |
| 43-047-53207 43-047-53208 | BONANZA 1023-17L4CS | Sec 17 | T10S R23E | 2449 FNL 1982 FEL |
| 43-047-53208 | BONANZA 1023-17K1CS | Sec 17 | T10S R23E | 2458 FNL 1976 FEL 2483 FNL 1959 FEL |
| 43-047-53209 | BONANZA 1023-17K4BS BONANZA 1023-17K4CS | Sec 17 Sec 17 | T10S R23E T10S R23E | 2388 FNL 1854 FEL |
| 43-047-53210 | BONANZA 1023-17K4C3 | Sec 17 | T103 R23E | 2466 FNL 1971 FEL |
| 43-047-53212 | BONANZA 1023-17M1CS | Sec 17 | T105 R23E | 2474 FNL 1965 FEL |
| 43-047-53213 | BONANZA 1023-17M4BS | Sec 17 | T105 R23E | 2491 FNL 1954 FEL |
| 43-047-53214 | BONANZA 1023-17N1BS | Sec 17 | T105 R23E | 2397 FNL 1849 FEL |
| 43-047-53215 | BONANZA 1023-1701BS | Sec 17 | T10S R23E | 2319 FNL 1732 FEL |
| 43-047-53216 | BONANZA 1023-1701CS | Sec 17 | T10S R23E | 2328 FNL 1727 FEL |
| 43-047-53217 | BONANZA 1023-1704BS | Sec 17 | T10S R23E | 2336 FNL 1721 FEL |
| 43-047-53218 | BONANZA 1023-17P1BS | Sec 17 | T10S R23E | 2250 FNL 1611 FEL |
| 43-047-53219 | BONANZA 1023-17N1CS | Sec 17 | T10S R23E | 2405 FNL 1843 FEL |
| 43-047-53220 | BONANZA 1023-17N4BS | Sec 17 | T10S R23E | 2413 FNL 1838 FEL |
| 43-047-53221 | BONANZA 1023-17P1CS | Sec 17 | T10S R23E | 2242 FNL 1616 FEL |
| 43-047-53222 | BONANZA 1023-17P4BS | Sec 17 | T10S R23E | 2225 FNL 1627 FEL |
| 43-047-53223 | BONANZA 1023-17A1CS | Sec 08 | T10S R23E | 0435 FSL 0692 FEL |

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| API Number | Well Name | | Surfac | ce Location |
|------------------|---------------------|--------|-----------|-------------------|
| 43-047-53224 | BONANZA 1023-17A4BS | Sec 08 | T10S R23E | 0426 FSL 0696 FEL |
| 43-047-53225 | BONANZA 1023-17A4CS | Sec 08 | T10S R23E | 0417 FSL 0700 FEL |
| 43-047-53226 | BONANZA 1023-17B1CS | Sec 08 | T10S R23E | 0390 FSL 0713 FEL |
| 43-047-53227 | BONANZA 1023-17H1BS | Sec 08 | T10S R23E | 0408 FSL 0705 FEL |
| 43-047-53228 | BONANZA 1023-17H2CS | Sec 08 | T10S R23E | 0399 FSL 0709 FEL |
| 43-047-53233 | BONANZA 1023-7A1CS | Sec 07 | T10S R23E | 0724 FNL 1691 FEL |
| 43-047-53234 | BONANZA 1023-7B1BS | Sec 07 | T10S R23E | 0735 FNL 1708 FEL |
| 43-047-53235 | BONANZA 1023-7B1CS | Sec 07 | T10S R23E | 0740 FNL 1717 FEL |
| 43-047-53236 | BONANZA 1023-7H1BS | Sec 07 | T10S R23E | 0729 FNL 1699 FEL |
| 43-047-53237 | BONANZA 1023-7H1CS | Sec 07 | T10S R23E | 0745 FNL 1725 FEL |
| 43-047-53238 | BONANZA 1023-7C1BS | Sec 07 | T10S R23E | 1258 FNL 2263 FEL |
| 43-047-53239 | BONANZA 1023-7C4BS | Sec 07 | T10S R23E | 1260 FNL 2273 FEL |
| 43-047-53240 | BONANZA 1023-7C4CS | Sec 07 | T10S R23E | 1261 FNL 2283 FEL |
| 43-047-53241 | BONANZA 1023-7F1BS | Sec 07 | T10S R23E | 1263 FNL 2293 FEL |
| 43-047-53242 | BONANZA 1023-7G1BS | Sec 07 | T10S R23E | 1255 FNL 2244 FEL |
| 43-047-53243 | BONANZA 1023-7G1CS | Sec 07 | T10S R23E | 1257 FNL 2254 FEL |
| 43-047-53245 | BONANZA 1023-7D1BS | Sec 07 | T10S R23E | 0589 FNL 0635 FWL |
| 43-047-53246 | BONANZA 1023-7D1CS | Sec 07 | T10S R23E | 0597 FNL 0629 FWL |
| 43-047-53247 | BONANZA 1023-7D4CS | Sec 07 | T10S R23E | 0605 FNL 0624 FWL |
| 43-047-53248 | BONANZA 1023-7E1BS | Sec 07 | T10S R23E | 0614 FNL 0618 FWL |
| 43-047-53249 | BONANZA 1023-7E1CS | Sec 07 | T10S R23E | 0622 FNL 0612 FWL |
| 43-047-53250 | BONANZA 1023-7H4CS | Sec 07 | T10S R23E | 2205 FNL 0374 FEL |
| 43-047-53251 | BONANZA 1023-7I1BS | Sec 07 | T10S R23E | 2210 FNL 0365 FEL |
| 43-047-53252 | BONANZA 1023-7I1CS | Sec 07 | T10S R23E | 2221 FNL 0348 FEL |
| 43-047-53253 | BONANZA 1023-7I4BS | Sec 07 | T10S R23E | 2226 FNL 0339 FEL |
| 43-047-53254 | BONANZA 1023-7F4CS | Sec 07 | T10S R23E | 2297 FSL 1754 FWL |
| 43-047-53255 | BONANZA 1023-7E4BS | Sec 07 | T10S R23E | 2288 FSL 1736 FWL |
| 43-047-53256 | BONANZA 1023-7I4CS | Sec 07 | T10S R23E | 2231 FNL 0330 FEL |
| 43-047-53257 | BONANZA 1023-7E4CS | Sec 07 | T10S R23E | 2283 FSL 1727 FWL |
| 43-047-53258 | BONANZA 1023-7F4BS | Sec 07 | T10S R23E | 2292 FSL 1745 FWL |
| 43-047-53259 | BONANZA 1023-7K1BS | Sec 07 | T10S R23E | 2305 FSL 1771 FWL |
| 43-047-53260 | BONANZA 1023-7K4BS | Sec 07 | T10S R23E | 2301 FSL 1762 FWL |
| 43-047-53261 | BONANZA 1023-7K3AS | Sec 07 | T10S R23E | 1103 FSL 0498 FWL |
| 43-047-53262 | BONANZA 1023-7L1CS | Sec 07 | T10S R23E | 1100 FSL 0488 FWL |
| 43-047-53263 | BONANZA 1023-7M4BS | Sec 07 | T10S R23E | 1097 FSL 0479 FWL |
| 43-047-53264 | BONANZA 1023-7M4CS | Sec 07 | T10S R23E | 1094 FSL 0470 FWL |
| 43-047-53265 | BONANZA 1023-701CS | Sec 07 | T10S R23E | 0081 FSL 2127 FEL |
| 43-047-53266 | BONANZA 1023-7N4CS | Sec 07 | T10S R23E | 0072 FSL 2145 FEL |
| 43-047-53267 | BONANZA 1023-702AS | Sec 07 | T10S R23E | 0077 FSL 2136 FEL |
| 43-047-53268 | BONANZA 1023-7P1BS | Sec 07 | T10S R23E | 0086 FSL 2118 FEL |
| 43-047-53269 | BONANZA 1023-7P1CS | Sec 07 | T10S R23E | 0095 FSL 2100 FEL |
| 43-047-53270 | BONANZA 1023-7P4BS | Sec 07 | T10S R23E | 0090 FSL 2109 FEL |
| Mara Da 1 | | | | |
| New Pad | 2.1 | | | |
| Located on Previ | ous Pad | | | |

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API Well Number: 43047532090000

WORKSHEET APPLICATION FOR PERMIT TO DRILL

| APD RECEIVED: 9/24/2012 | API NO. ASSIGNED: 43047532090000 |
|--------------------------------|-----------------------------------------|
| 711 5 1120211 2012 | 711 1 1 1 0 1 7 1 0 0 1 1 0 0 1 0 0 0 0 |

WELL NAME: BONANZA 1023-17K4BS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SWNE 17 100S 230E **Permit Tech Review:**

> **SURFACE: 2483 FNL 1959 FEL** Engineering Review:

> **BOTTOM:** 1814 FSL 2138 FWL Geology Review:

COUNTY: UINTAH

LATITUDE: 39.94928 LONGITUDE: -109.34834 UTM SURF EASTINGS: 641093.00 NORTHINGS: 4423434.00

FIELD NAME: NATURAL BUTTES LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU37355 PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal **COALBED METHANE: NO**

RECEIVED AND/OR REVIEWED: LOCATION AND SITING:

✓ PLAT R649-2-3.

Unit: PONDEROSA Bond: FEDERAL - WYB000291

Potash R649-3-2. General

Oil Shale 190-5

Oil Shale 190-3 R649-3-3. Exception

Drilling Unit Oil Shale 190-13

Board Cause No: Cause 179-17 Water Permit: 43-8496

Effective Date: 5/9/2012 **RDCC Review:**

Siting: Suspends General Siting Fee Surface Agreement

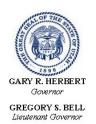
✓ Intent to Commingle R649-3-11. Directional Drill

Commingling Approved

Comments: Presite Completed

Stipulations:

3 - Commingling - ddoucet4 - Federal Approval - dmason15 - Directional - dmason



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: BONANZA 1023-17K4BS

API Well Number: 43047532090000

Lease Number: UTU37355 Surface Owner: FEDERAL Approval Date: 10/16/2012

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 179-17. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 179-17, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas



ILIN 2 0 2012

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

BUREAU OF LAND MANAGEMENT 5. Lease Serial No. UTU37355 ~ APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allottee or Tribe Name la. Type of Work: DRILL ☐ REENTER 7. If Unit or CA Agreement, Name and No. UTU88209A V Lease Name and Well No. 1b. Type of Well: **BONANZA 1023-17K4BS** Oil Well ☐ Other Single Zone ☐ Multiple Zone 2. Name of Operator Contact: DANIELLE PIERNOT API Well No KERR MCGEE OIL&GAS ONSHOREMailPDanielle.Piernot@anadarko.com 3 ()Yr 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory PO BOX 173779 Ph: 720-929-6156 BONANZA DENVER, CO 80202-3779 Fx: 720-929-7156 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T., R., M., or Blk. and Survey or Area SWNE 2483FNL 1959FEL 39.949446 N Lat, 109.348292 W Lon V Sec 17 T10S R23E Mer SLB At proposed prod. zone NESW 1814FSL 2138FWL 39.946717 N Lat, 109.352530 W Lon V 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State APPROXIMATELY 51 MILES SOUTH OF VERNAL, UT UINTÁH COUNTY UT 15. Distance from proposed location to nearest property or 16. No. of Acres in Lease 17. Spacing Unit dedicated to this well RECEIVED lease line, ft. (Also to nearest drig. unit line, if any) 1814 1920.00 JAN 1-8-2013 18. Distance from proposed location to nearest well, drilling, 19. Proposed Depth 20. BLM/BIA Bond No. on file completed, applied for, on this lease, ft. 2051 8248 MD WYB000291 DIV. OF OIL, GAS & MINING 7903 TVD 21. Elevations (Show whether DF, KB, RT, GL, etc. 22. Approximate date work will start 23. Estimated duration 5180 GL 07/30/2012 60-90 DAYS 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form: 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 3. A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification SUPO shall be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the authorized officer 25. Signature Name (Printed/Typed) (Electronic Submission) DANIELLE PIERNOT Ph: 720-929-6156 06/04/2012 REGULATORY ANALYST II Approved by (Signature) Name (Printed/Typed) Jerry Kenczka JAN 0 3 2013 Assistant Field Manager Office VERNAL FIELD OFFICE Lands & Mineral Resources Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL ATTACHED Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United

Additional Operator Remarks (see next page)

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Electronic Submission #139659 verified by the BLM Well Information System For KERR MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal

NOTICE OF APPROVAL





UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

170 South 500 East VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No:

Kerr-McGee Oil & Gas Onshore, LP

Bonanza 1023-17K4BS

API No: 43-047-53209

Location: Lease No: SWNE, Sec. 17, T10S, R23E

UTU-37355

Agreement:

Ponderosa Unit

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER:

(435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

| Location Construction (Notify Environmental Scientist) | - | Forty-Eight (48) hours prior to construction of location and access roads. |
|--------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------|
| Location Completion (Notify Environmental Scientist) | _ | Prior to moving on the drilling rig. |
| Spud Notice (Notify Petroleum Engineer) | _ | Twenty-Four (24) hours prior to spudding the well. |
| Casing String & Cementing (Notify Supv. Petroleum Tech.) | _ | Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <u>blm_ut_vn_opreport@blm.gov</u> |
| BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.) | - | Twenty-Four (24) hours prior to initiating pressure tests. |
| First Production Notice (Notify Petroleum Engineer) | - | Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop
 work and contact the Authorized Officer (AO). A determination will be made by the AO as to what
 mitigation may be necessary for the discovered paleontologic material before construction can
 continue.
- The following will be used as standard operating procedures: Green completion or controlled VOC
 emissions methods with 90% efficiency for Oil or Gas Atmospheric Storage Tanks, VOC Venting
 controls or flaring, Glycol Dehydration and Amine Unites, Well Completion, Re-Completion, Venting,
 and Planned Blowdown Emissions.
- All reclamation will comply with the Green River Reclamation Guidelines
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an
 integrated pest management program is applicable, coordination has been undertaken with the
 state and local management program (if existing). A copy of the pest management plan will be
 submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- The best method to avoid entrainment is to pump from an off-channel location one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.
- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
 - a. do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;

Page 3 of 7 Well: BONANZA 1023-17K4BS 11/20/2012

- b. limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 31); and
- c. limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
- Screen all pump intakes with 3/32" mesh material.
- Approach velocities for intake structures will follow the National Marine Fisheries Service's
 document "Fish Screening Criteria for Anadromous Salmonids". For projects with an in-stream
 intake that operate in stream reaches where larval fish may be present, the approach velocity will
 not exceed 0.33 feet per second (ft./s).
- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:

Northeastern Region 318 N Vernal Ave, Vernal, UT 84078 Phone: (435) 781-9453

- On BLM administered land, KMG will adhere to seasonal and spatial buffers applicable to occupied raptor nests in the GNBPA in consideration of the Raptor BMPs from Appendix A of the Vernal RMP. No construction or drilling activities for the Bonanza 1023-8P, Bonanza 1023-17B, and Bonanza 1023-17G pads from January 1st through August 31st to minimize impacts during golden eagle nesting.
- Damage to livestock and livestock facilities will be reported as quickly as possible to the BLM and affected livestock operators. Operators will develop and employ prevention measures to avoid damaging fences, gates, and cattle guards, including upgrading cattle guard gate widths and loadbearing requirements and fencing all open pits and cellars.
- If partial or complete removal of a fence cannot be avoided, the fence will be braced and tied off per
 the BLM guidance. Where the fence is crossed by a road, the fence will be braced and a cattle
 guard and gate installed per BLM guidance.

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Cement for the 4.5 inch casing shall be brought up to a minimum of 200 feet above the surface casing shoe.
- A CBL shall be run from TD to TOC in the Production Casing.
- Variances shall be granted as requested in the APD for the process of air drilling to the depth of the surface casing,
- A variance is granted for the FIT test requirement.

Variances Granted: Air Drilling

- Properly lubricated and maintained rotating head. Variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore. Variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors located 40'from the well bore.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for the kill medium and will utilize a skid pump near the reserve pit to supply the water to the well bore if necessary.
- Automatic igniter. Variance granted for igniter due to there being no productive formations encountered while air drilling.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or

Page 5 of 7 Well: BONANZA 1023-17K4BS 11/20/2012

abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
 encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
 Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
 Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well by CD (compact disc).
 This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 6 of 7 Well: BONANZA 1023-17K4BS 11/20/2012

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at <u>www.ONRR.gov</u>.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written communication
 and must be received in this office by not later than the fifth business day following the date on
 which the well is placed on production. The notification shall provide, as a minimum, the following
 informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - o Unit agreement and/or participating area name and number, if applicable.
 - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

Page 7 of 7 Well: BONANZA 1023-17K4BS 11/20/2012

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to
 the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first.
 All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All
 product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in
 accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
 lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a
 suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be
 obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior approval
 of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
 approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
 of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office
 Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in
 order that a representative may witness plugging operations. If a well is suspended or abandoned,
 all pits must be fenced immediately until they are backfilled. The "Subsequent Report of
 Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of
 the well bore, showing location of plugs, amount of cement in each, and amount of casing left in
 hole, and the current status of the surface restoration.

Sundry Number: 42854 API Well Number: 43047532090000

| | STATE OF UTAH | | FORM 9 | |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN | | 5.LEASE DESIGNATION AND SERIAL NUMBER: UTU37355 | |
| SUNDR | RY NOTICES AND REPORTS (| ON WELLS | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: | |
| current bottom-hole depth, | Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | | | |
| 1. TYPE OF WELL Gas Well | | | 8. WELL NAME and NUMBER: BONANZA 1023-17K4BS | |
| 2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON | NSHORE, L.P. | | 9. API NUMBER: 43047532090000 | |
| 3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl | h Street, Suite 600, Denver, CO, 80217 | PHONE NUMBER: 3779 720 929-0 | 9. FIELD and POOL or WILDCAT: 5NATERAL BUTTES | |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 2483 FNL 1959 FEL | | | COUNTY: UINTAH | |
| QTR/QTR, SECTION, TOWNSH | HIP, RANGE, MERIDIAN: 17 Township: 10.0S Range: 23.0E Meridi | ian: S | STATE: UTAH | |
| 11. CHEC | K APPROPRIATE BOXES TO INDICAT | E NATURE OF NOTICE, REPOR | RT, OR OTHER DATA | |
| TYPE OF SUBMISSION | | TYPE OF ACTION | | |
| Kerr-McGee Oil & G an extension to this | CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show as Gas Onshore, L.P. (Kerr-McGe APD for the maximum time as with any questions and/or co | ee) respectfully requests allowed. Please contact | CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL ✓ APD EXTENSION OTHER: Depths, volumes, etc. Approved by the Utah Division of Oil, Gas and Mining Date: September 25, 2013 By: | |
| NAME (PLEASE PRINT) | PHONE NUMBE | ER TITLE | | |
| Teena Paulo | 720 929-6236 | Staff Regulatory Specialist | | |
| SIGNATURE N/A | | DATE 9/24/2013 | | |

Sundry Number: 42854 API Well Number: 43047532090000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047532090000

API: 43047532090000

Well Name: BONANZA 1023-17K4BS

Location: 2483 FNL 1959 FEL QTR SWNE SEC 17 TWNP 100S RNG 230E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 10/16/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

| • If located on private land, has the ownership changed, if so, has the surface Yes No | ce agreement been updated? 🔵 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Have any wells been drilled in the vicinity of the proposed well which wou requirements for this location? Yes No | lld affect the spacing or siting |
| Has there been any unit or other agreements put in place that could affect proposed well? Yes No | t the permitting or operation of thi |
| Have there been any changes to the access route including ownership, or proposed location? Yes No | rightof- way, which could affect th |
| • Has the approved source of water for drilling changed? 🔘 Yes 🃵 No | |
| Have there been any physical changes to the surface location or access ro plans from what was discussed at the onsite evaluation? Yes N | |
| • Is bonding still in place, which covers this proposed well? 📵 Yes 🔘 | No |
| nature: Teena Paulo Date: 9/24/2013 | |

Sig

Title: Staff Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Sundry Number: 44041 API Well Number: 43047532090000

| | FORM 9 | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ι | 5.LEASE DESIGNATION AND SERIAL NUMBER: UTU37355 | | |
| SUNDR | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: | | |
| Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | | | 7.UNIT or CA AGREEMENT NAME: PONDEROSA |
| 1. TYPE OF WELL Gas Well | | | 8. WELL NAME and NUMBER: BONANZA 1023-17K4BS |
| 2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON | 9. API NUMBER: 43047532090000 | | |
| 3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 720 929-6 | | | 9. FIELD and POOL or WILDCAT: 5MATURAL BUTTES |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 2483 FNL 1959 FEL | COUNTY: UINTAH | | |
| QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SWNE Section: 1 | STATE: UTAH | | |
| 11. CHECI | K APPROPRIATE BOXES TO INDICA | ATE NATURE OF NOTICE, REPOR | RT, OR OTHER DATA |
| TYPE OF SUBMISSION | TYPE OF ACTION | | |
| | ACIDIZE | ALTER CASING | CASING REPAIR |
| NOTICE OF INTENT Approximate date work will start: | CHANGE TO PREVIOUS PLANS | CHANGE TUBING | CHANGE WELL NAME |
| | CHANGE WELL STATUS | COMMINGLE PRODUCING FORMATIONS | CONVERT WELL TYPE |
| SUBSEQUENT REPORT Date of Work Completion: | DEEPEN | FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | OPERATOR CHANGE | PLUG AND ABANDON | PLUG BACK |
| ✓ SPUD REPORT | PRODUCTION START OR RESUME | RECLAMATION OF WELL SITE | RECOMPLETE DIFFERENT FORMATION |
| Date of Spud: | REPERFORATE CURRENT FORMATION | SIDETRACK TO REPAIR WELL | TEMPORARY ABANDON |
| 10/18/2013 | | | |
| DRILLING REPORT | TUBING REPAIR | | ☐ WATER DISPOSAL |
| Report Date: | WATER SHUTOFF | SI TA STATUS EXTENSION | APD EXTENSION |
| | WILDCAT WELL DETERMINATION | OTHER | OTHER: |
| Spud well 10/18/20° X .250 wall con Anticipated surface | COMPLETED OPERATIONS. Clearly show 13 @ 08:30. Drill 24" conductor pipe, cement with 9 spud date and surface cas | uctor hole to 40', run 14" 99 sacks ready mix. sing cement 11/15/2013. | Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 23, 2013 |
| NAME (PLEASE PRINT) Doreen Green | PHONE NUM I 435 781-9758 | BER TITLE Regulatory Analyst II | |
| SIGNATURE N/A | | DATE 10/23/2013 | |

Sundry Number: 44041 API Well Number: 43047532090000

| | FORM 9 | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ι | 5.LEASE DESIGNATION AND SERIAL NUMBER: UTU37355 | | |
| SUNDR | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: | | |
| Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | | | 7.UNIT or CA AGREEMENT NAME: PONDEROSA |
| 1. TYPE OF WELL Gas Well | | | 8. WELL NAME and NUMBER: BONANZA 1023-17K4BS |
| 2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON | 9. API NUMBER: 43047532090000 | | |
| 3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 720 929-6 | | | 9. FIELD and POOL or WILDCAT: 5MATURAL BUTTES |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 2483 FNL 1959 FEL | COUNTY: UINTAH | | |
| QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SWNE Section: 1 | STATE: UTAH | | |
| 11. CHECI | K APPROPRIATE BOXES TO INDICA | ATE NATURE OF NOTICE, REPOR | RT, OR OTHER DATA |
| TYPE OF SUBMISSION | TYPE OF ACTION | | |
| | ACIDIZE | ALTER CASING | CASING REPAIR |
| NOTICE OF INTENT Approximate date work will start: | CHANGE TO PREVIOUS PLANS | CHANGE TUBING | CHANGE WELL NAME |
| | CHANGE WELL STATUS | COMMINGLE PRODUCING FORMATIONS | CONVERT WELL TYPE |
| SUBSEQUENT REPORT Date of Work Completion: | DEEPEN | FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | OPERATOR CHANGE | PLUG AND ABANDON | PLUG BACK |
| ✓ SPUD REPORT | PRODUCTION START OR RESUME | RECLAMATION OF WELL SITE | RECOMPLETE DIFFERENT FORMATION |
| Date of Spud: | REPERFORATE CURRENT FORMATION | SIDETRACK TO REPAIR WELL | TEMPORARY ABANDON |
| 10/18/2013 | | | |
| DRILLING REPORT | TUBING REPAIR | | ☐ WATER DISPOSAL |
| Report Date: | WATER SHUTOFF | SI TA STATUS EXTENSION | APD EXTENSION |
| | WILDCAT WELL DETERMINATION | OTHER | OTHER: |
| Spud well 10/18/20° X .250 wall con Anticipated surface | COMPLETED OPERATIONS. Clearly show 13 @ 08:30. Drill 24" conductor pipe, cement with 9 spud date and surface cas | uctor hole to 40', run 14" 99 sacks ready mix. sing cement 11/15/2013. | Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 23, 2013 |
| NAME (PLEASE PRINT) Doreen Green | PHONE NUM I 435 781-9758 | BER TITLE Regulatory Analyst II | |
| SIGNATURE N/A | | DATE 10/23/2013 | |

Sundry Number: 49427 API Well Number: 43047532090000

| | FORM 9 | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------|--|
| I | 5.LEASE DESIGNATION AND SERIAL NUMBER: UTU37355 | | | |
| SUNDR | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: | | | |
| Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | | | 7.UNIT or CA AGREEMENT NAME: PONDEROSA | |
| 1. TYPE OF WELL Gas Well | 8. WELL NAME and NUMBER: BONANZA 1023-17K4BS | | | |
| 2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON | 9. API NUMBER: 43047532090000 | | | |
| 3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 720 929-6 | | | 9. FIELD and POOL or WILDCAT: 1NATUERAL BUTTES | |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 2483 FNL 1959 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 17 Township: 10.0S Range: 23.0E Meridian: S | | | COUNTY: UINTAH | |
| | | | STATE: UTAH | |
| 11. CHECI | K APPROPRIATE BOXES TO INDICATE N | NATURE OF NOTICE, REPOR | T, OR OTHER DATA | |
| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
| | ACIDIZE | ALTER CASING | CASING REPAIR | |
| NOTICE OF INTENT Approximate date work will start: | CHANGE TO PREVIOUS PLANS | CHANGE TUBING | CHANGE WELL NAME | |
| Approximate date work will start. | CHANGE WELL STATUS | COMMINGLE PRODUCING FORMATIONS | CONVERT WELL TYPE | |
| SUBSEQUENT REPORT Date of Work Completion: | DEEPEN | FRACTURE TREAT | NEW CONSTRUCTION | |
| | OPERATOR CHANGE | PLUG AND ABANDON | PLUG BACK | |
| SPUD REPORT | PRODUCTION START OR RESUME | RECLAMATION OF WELL SITE | RECOMPLETE DIFFERENT FORMATION | |
| Date of Spud: | REPERFORATE CURRENT FORMATION | SIDETRACK TO REPAIR WELL | TEMPORARY ABANDON | |
| | TUBING REPAIR | VENT OR FLARE | WATER DISPOSAL | |
| ✓ DRILLING REPORT | | | | |
| Report Date: 4/1/2014 | WATER SHUTOFF | SI TA STATUS EXTENSION | APD EXTENSION | |
| | WILDCAT WELL DETERMINATION | OTHER | OTHER: | |
| | COMPLETED OPERATIONS. Clearly show all por Quarter 1 of 2014. Well Drill | • | Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 01, 2014 | |
| NAME (PLEASE PRINT) PHONE NUMBER | | TITLE Pogulatory Applyet | | |
| Kay E. Kelly 720 929 6582 SIGNATURE | | Regulatory Analyst DATE | | |
| N/A | | 4/1/2014 | | |

RECEIVED: Apr. 01, 2014

State of Utah - Notification Form

Operator <u>Anadarko Petroleum</u> Rig Name/# <u>PIONEER 54</u>
Submitted By <u>STUART NEILSON</u> Phone Number <u>435-790-2921</u>
Well Name/Number <u>BONANZA 1023-17K4BS</u>
Qtr/Qtr <u>SW/NE</u> Section <u>17</u> Township <u>10S</u> Range <u>23E</u>
Lease Serial Number <u>UTU-37355</u>
API Number <u>43-047-53209</u>

| Lease Serial Number <u>UTU-37355</u> API Number 43-047-53209 |
|--------------------------------------------------------------|
| <u>Casing</u> – Time casing run starts, not cementing times. |
| Production Casing Other |
| Date/Time <u>4/25/14</u> <u>6</u> AM _ PM _ |
| BOPE Initial BOPE test at surface casing point Other |
| Date/Time AM [PM [|
| Rig Move Location To: Date/Time AM PM |
| Remarks TIME IS APPROXIMATE |

| | STATE OF UTAH | | | FORM 9 |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------|--------------------------------|---------------------------------------------------|
| ı | DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI | | 3 | 5.LEASE DESIGNATION AND SERIAL NUMBER: UTU37355 |
| SUNDR | RY NOTICES AND REPORTS | ON | WELLS | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| | oposals to drill new wells, significantly reenter plugged wells, or to drill horiz n for such proposals. | | | 7.UNIT or CA AGREEMENT NAME: PONDEROSA |
| 1. TYPE OF WELL Gas Well | | | | 8. WELL NAME and NUMBER: BONANZA 1023-17K4BS |
| 2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON | ISHORE, L.P. | | | 9. API NUMBER: 43047532090000 |
| 3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th | h Street, Suite 600, Denver, CO, 802 | | NE NUMBER: 720 929-6 | 9. FIELD and POOL or WILDCAT: 100ATURAL BUTTES |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 2483 FNL 1959 FEL | | | | COUNTY: UINTAH |
| QTR/QTR, SECTION, TOWNSH | HIP, RANGE, MERIDIAN: 17 Township: 10.0S Range: 23.0E Mer | ridian: | S | STATE: UTAH |
| 11. CHECI | K APPROPRIATE BOXES TO INDICA | ATE N | ATURE OF NOTICE, REPOR | RT, OR OTHER DATA |
| TYPE OF SUBMISSION | | | TYPE OF ACTION | |
| | ACIDIZE | | ALTER CASING | CASING REPAIR |
| NOTICE OF INTENT Approximate date work will start: | CHANGE TO PREVIOUS PLANS | | CHANGE TUBING | CHANGE WELL NAME |
| Approximate date work will start. | CHANGE WELL STATUS | | COMMINGLE PRODUCING FORMATIONS | CONVERT WELL TYPE |
| SUBSEQUENT REPORT Date of Work Completion: | DEEPEN | □ F | FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| 6/13/2014 | OPERATOR CHANGE | | PLUG AND ABANDON | PLUG BACK |
| SPUD REPORT | ✓ PRODUCTION START OR RESUME | | RECLAMATION OF WELL SITE | RECOMPLETE DIFFERENT FORMATION |
| Date of Spud: | REPERFORATE CURRENT FORMATION | | SIDETRACK TO REPAIR WELL | TEMPORARY ABANDON |
| | TUBING REPAIR | | /ENT OR FLARE | WATER DISPOSAL |
| DRILLING REPORT | WATER SHUTOFF | | SI TA STATUS EXTENSION | APD EXTENSION |
| Report Date: | | | SI TA STATUS EXTENSION | |
| | WILDCAT WELL DETERMINATION | | OTHER | OTHER: |
| The BONANZA 10 | COMPLETED OPERATIONS. Clearly show 123-17K4BS was placed on upletion. Producing from the | prod | duction 06/13/2014 | Accepted by the |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| NAME (PLEASE PRINT) | PHONE NUM | IBER | TITLE | |
| Doreen Green | 435 781-9758 | | Regulatory Analyst II | |
| SIGNATURE N/A | | | DATE 6/16/2014 | |

| Form 3160-4 (August 2007) | | | DEPAR BUREAU | TMEN | T OF | | NTERIO | | | | | | | OM | B No. 10 | PROVED 004-0137 y 31, 2010 |
|------------------------------|-----------------------------|----------------------|--------------------|------------------------|----------|----------------|--------------|------------------|-----------------------------|-------------------------|---------|-------------------------------------|--------------|---------------------------|-----------------|-------------------------------------------------------------|
| | WELL (| COMPL | ETION C | R RE | COI | MPLE | TION R | EPOF | RT A | ND LO | } | | | ease Serial I | No. | |
| 1a. Type of | Well | Oil Well | ✓ Gas ' | Well | | ry [| Other | | | | | | 6. If | Indian, Alle | ottee or | Tribe Name |
| b. Type of | Completion | _ | New Well er | ☐ Wor | k Ove | er 🗆 | Deepen | | Plug Ba | nck 🔲 | Diff. I | Resvr. | | nit or CA A | | ent Name and No. |
| 2. Name of | | AND C | AS ONSHŒ | DMCoil: il | | | ILA BEA | | | | | | 8. Le | ease Name a | and We | |
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| | DENVER, | | | | | | Pł | n: 720- | -929-6 | | | <u></u> | | | | 43-047-53209 |
| | ` ' | | ion clearly an | | | | | • | | | | | | Held and Pol IATURAL I | | Exploratory ES |
| At surfa | | | IL 1959FEL | | | • | | 2 W Lo | on | | | | | | | Block and Survey 10S R23E Mer SLB |
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| 14. Date Sp 10/18/2 | | | | ate T.D. /24/201 | | nea | | | Date Co D & A 6/13/20 | mpleted ☑ Rea 014 | dy to I | Prod. | 1/. E | | DF, KE 98 KB | 3, RT, GL)* |
| 18. Total D | epth: | MD TVD | 8255 7916 | | 19. 1 | Plug Bac | k T.D.: | MD TV | | 8192 7853 | | 20. Dej | oth Bri | dge Plug Se | | MD TVD |
| 21. Type El RADIAL | lectric & Oth _ CBL/GR/C | er Mecha CCL/TEM | nical Logs R IP | un (Sub | mit co | py of ea | ch) | | | 22. | Was | well core DST run? ctional Su | | ⊠ No | Yes | (Submit analysis) (Submit analysis) (Submit analysis) |
| 23. Casing an | d Liner Reco | ord (Repo | ort all strings | set in w | ell) | | | | | | | | | | | |
| Hole Size | Size/G | rade | Wt. (#/ft.) | To _j (MI | | Botton (MD) | | e Cemer Depth | | No. of Sk Type of Ce | | Slurry (BB | | Cement 7 | Гор* | Amount Pulled |
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| 24. Tubing | Record | | | | | | | | | | | | | | | |
| $\overline{}$ | Depth Set (M | (ID) P | acker Depth | (MD) | Siz | ze D | epth Set (| (MD) | Pack | er Depth (| MD) | Size | De | pth Set (MI | D) | Packer Depth (MD) |
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| 25. Producir | | | | | | | 26. Perfo | | | | | | . | | 1 | |
| A) | ormation WASA | тсн | Тор | 5124 | Bot | 5780 | | Perfora | | erval 124 TO 5 | 780 | Size 0.4 | _ | No. Holes | OPE | Perf. Status |
| B) | MESAVE | | | 6835 | | 8131 | | | | 835 TO 8 | | 0.4 | | | OPE | |
| C) | | | | | | | | | | | | | | | | |
| D) | | | | | | | | | | | | | | | | |
| | | | ment Squeeze | e, Etc. | | | | | | . 1m | C 3 | <i>f</i> 1 | | | | |
| 1 | Depth Interva | | 131 PUMP 9 |).655 BB | LS SL | ICKWAT | ER AND 2 | 214.084 | | ant and Ty 0/50 MESH | | | | | | |
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| 20 D 1 .: | T / 1 | | | | | | | | | | | | | | | |
| Date First | on - Interval | Hours | Test | Oil | Id | Gas | Water | lo | Oil Gravity | v | Gas | | Producti | on Method | | |
| Produced 06/13/2014 | Date 06/23/2014 | Tested 24 | Production | BBL 1.0 | | MCF 1492.0 | BBL 0.0 | C | Corr. API | , | Gravit | ty | | | VS FRO | DM WELL |
| Choke Size | Tbg. Press. Flwg. 731 | Csg. Press. | 24 Hr. Rate | Oil BBL | | Gas MCF | Water BBL | | Gas:Oil Ratio | | Well S | Status | | | | |
| 24/64 | SI | 1213.0 | | 1 | | 1492 | 0 | | | | | PGW | | | | |
| 28a. Product | tion - Interva | l B Hours | Test | Oil | I | Gas | Water | In | Oil Gravity | v | Gas | | Producti | on Method | | |
| Produced | Date | Tested | Production | BBL | | MCF | BBL | | Corr. API | | Gravit | ty | Toducti | | | |
| Choke Size | Tbg. Press. Flwg. | Csg. Press. | 24 Hr. Rate | Oil BBL | | Gas MCF | Water BBL | | Gas:Oil Ratio | | Well S | Status | | | | |

⁽See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #252026 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

| 28b. Prod | duction - Inter | val C | | | | | | | | | | |
|------------------------|------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------|-----------------------------------------|-----------------------------|----------------------------------|-----------------------------------------------|------------------------------|----------------------|---------------------------------------------|--------------|------------------------------|
| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravi | ity | Production Method | | |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well | Status | | | |
| 28c. Proc | duction - Inter | val D | | | | | | | | | | |
| Date First | Test | Hours | Test | Oil | Gas | Water | Oil Gravity | Gas | | Production Method | | |
| Produced | Date | Tested | Production | BBL | MCF | BBL | Corr. API | Gravi | ity | | | |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well | Status | | | |
| 29. Dispo | osition of Gas | (Sold, used | for fuel, vent | ed, etc.) | • | | | | | | | |
| | nary of Porou | s Zones (Ir | nclude Aquife | rs): | | | | | 31. Fo | ormation (Log) Ma | rkers | |
| Show tests, | all important | zones of p | orosity and c | ontents the | ereof: Coreo ne tool ope | d intervals an en, flowing ar | d all drill-stem nd shut-in pressur | es | | | | |
| | Formation | | Тор | Bottor | n | Descript | ions, Contents, et | c. | | Name | | Тор |
| | | | | | | | | | G | REEN RIVER | | Meas. Dept |
| The the s ft.; L | tional remarks first 166 ft. o strace hole s TC csg was ry, perforatio | f the surfa was drillec run from 5 | ce hole was I with an 11 064 ft. to 82 | drilled wi in. bit. Do 40 ft. Att | QX csg wa | as run from s | remainder of surface to 5064 gical well | | M. W | RD'S NEST AHOGANY 'ASATCH ESAVERDE | | 1202 1658 4121 6086 |
| 33. Circle | e enclosed atta | achments: | | | | | | | | | | |
| | ectrical/Mech | _ | | - | | 2. Geolog | - | | DST R | eport | 4. Direction | nal Survey |
| 5. St | ındry Notice f | or plugging | g and cement | verificatio | n | 6. Core A | nalysis | 7 | Other: | | | |
| | | | Electi | ronic Subi | mission #2 | 52026 Verifi | ed by the BLM V GAS ONSHORE | Well Inform L, sent to th | nation S ne Verna | ıl | | ons): |
| Name | e(please print |) <u>ILA BEA</u> | LE | | | | Title | STAFF RE | GULAT | ORY SPECIALIS | ST | |
| Signa | ature | (Electron | nic Submissi | on) | | | Date | 07/08/2014 | 4 | | | |
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| | | | | U | S ROC | KIES RE | GION | |
|----------------------------|--------------------------------|------------------|------------|------------|-------------|------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | Opera | tion S | umma | ry Report | |
| Well: BONANZA | 1023-17K4BS WHIT | ΓΕ | | | | | Spud Date: 11 | /16/2013 |
| Project: UTAH-U | INTAH | | Site: BON | IANZA 10 | 23-17G F | PAD/ROW | D | Rig Name No: PIONEER 54/54, CAPSTAR 310/310 |
| Event: DRILLING | } | | Start Date | e: 10/14/2 | .013 | | | End Date: 4/25/2014 |
| Active Datum: Rh Level) | KB @5,198.00usft (a | above Mean S | iea | UWI: SV | V/NE/0/1 | 0/S/23/E/1 | 7/0/0/26/PM/N/2 | 2483/E/0/1959/0/0 |
| Date | Time Start-End | Duration (hr) | Phase | Code | Sub Code | P/U | MD From (usft) | Operation |
| 11/16/2013 | 7:00 - 7:30 | 0.50 | MIRU | 01 | Е | Р | 59 | CUT OFF CASING / TEAR DOWN AND PREPARE FOR TRUCKS |
| | 7:30 - 9:30 | 2.00 | MIRU | 01 | С | Р | 59 | PJSM WITH HOWCROFT FIELD SERVICES & RIG CREW / SKID RIG 20' TO THE BONANZA 1023-17K4BS, WELL 9 OF 9 / MOVE IN AND RIG UP / HOWCROFT FIELD SERVICES HAD TWO TRUCKS & 1 PUSHER/SAFETY MAN FOR RIG SKID |
| | 9:30 - 11:30 | 2.00 | MIRU | 01 | В | Р | 59 | RIG UP / WELD UP CONDUCTOR AND HOOK UP FLOW LINE |
| | 11:30 - 12:30 | 1.00 | MIRU | 06 | Α | Р | 59 | PRESPUD SAFETY MEETING - PICK UP 12 1/4" BIT & 8" MOTOR / TRIP IN HOLE |
| | 12:30 - 13:00 13:00 - 13:30 | 0.50 | DRLSUR | 02 | В | P | 59 | DRILL 12 1/4 SURFACE HOLE F/ 49' TO 166', 117' @ 234 FPH WOB = 8 TO 12K ROTARY RPM = 60 / MUD MOTOR RPM = 111 / TOTAL = 171 PUMPING 650 GPM @ 200 SPM STAND PIPE PRESSURE ON/OFF = 800/600 TORQUE ON/OFF = 2000/740 PU = 30 / SO = 28 / ROT = 28 PEAK ON LINE ARCHER OFF LINE MUD WT 8.4 NO HOLE ISSUES TRIP OUT OF HOLE / LAY DOWN 12 1/4" BIT |
| | 13:30 - 14:30 | 1.00 | DRLSUR | 06 | A | P | 176 | PICK UP 11" BIT AND DIRECTIONAL ASSEMBLY WITH |
| | 14:30 - 17:30 | 3.00 | DRLSUR | 02 | В | P | 176 | GYRO MWD / SCRIBE MOTOR / TRIP IN HOLE DRILL 11" SURFACE HOLE F/ 166' TO 415', 249' @ 138.3 FPH WOB = 15 TO 20K ROTARY RPM = 60 / MUD MOTOR RPM = 111 / TOTAL = 171 PUMPING 650 GPM @ 200 SPM STAND PIPE PRESSURE ON/OFF = 1,000/800 TORQUE ON/OFF = 2,160/750 PU = 50 / SO = 42 / ROT = 48 PEAK ON LINE ARCHER OFF LINE MUD WT 8.4 SLID 20' = 7.97% 3.54' ABOVE & 0.44' LEFT OF THE LINE |
| | | | | | | | | NO HOLE ISSUES |

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Sundry Number: 53078 API Well Number: 43047532090000 **US ROCKIES REGION Operation Summary Report** Spud Date: 11/16/2013 Well: BONANZA 1023-17K4BS WHITE Project: UTAH-UINTAH Rig Name No: PIONEER 54/54, CAPSTAR 310/310 Site: BONANZA 1023-17G PAD/ROW D **Event: DRILLING** End Date: 4/25/2014 Start Date: 10/14/2013 UWI: SW/NE/0/10/S/23/E/17/0/0/26/PM/N/2483/E/0/1959/0/0 Active Datum: RKB @5,198.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 18:00 - 19:00 1.00 DRLSUR 02 В Ρ 425 DRILL 11" SURFACE HOLE F/ 415' TO 480', 65' @ 65 **FPH** WOB = 15 TO 20K ROTARY RPM = 60 / MUD MOTOR RPM = 111 / **TOTAL = 144** PUMPING 650 GPM @ 200 SPM STAND PIPE PRESSURE ON/OFF = 1000/800 TORQUE ON/OFF = 2,160/750 PU = 52 / SO = 42 / ROT = 48 PEAK ON LINE ARCHER OFF LINE MUD WT 8.4 SLID 14' = 22.22% 3.54' ABOVE & 0.44' LEFT OF THE LINE NO HOLE ISSUES 19:00 - 19:30 0.50 **DRLSUR** 06 490 TRIP OUT OF HOLE 19:30 - 21:00 1.50 **DRLSUR** 06 J 490 LAY DOWN GYRO MWD / TRIP IN HOLE 21:00 - 0:00 3.00 **DRLSUR** 02 В Ρ 490 DRILL 11" SURFACE HOLE F/ 480' TO 700', 220' @ 73.3 FPH WOB = 15 TO 20K ROTARY RPM = 60 / MUD MOTOR RPM = 95 / TOTAL = 155PUMPING 556 GPM @ 170 SPM STAND PIPE PRESSURE ON/OFF = 830/630 TORQUE ON/OFF = 2,530/1,050 PU = 65 / SO = 52 / ROT = 58 PEAK ON LINE ARCHER ON LINE @ 669' WITH 250 CFM MUD WT 8 4 SLID 81' = 28.52% 0.96' ABOVE & 0.68' RIGHT OF THE LINE HOLE ISSUES = LOST CIRCULATION @ 635' 11/17/2013 0:00 - 6:00 6.00 DRLSUR 02 В Ρ 710 DRILL 11" SURFACE HOLE F/ 700' TO 1,297', 597' @ 99.5 FPH WOB = 15 TO 20K ROTARY RPM = 60 / MUD MOTOR RPM = 95 / TOTAL = 155 PUMPING 524 GPM @ 160 SPM STAND PIPE PRESSURE ON/OFF = 900/730 TORQUE ON/OFF = 2,530/1,050 PU = 75 / SO = 62 / ROT = 68 PEAK ON LINE ARCHER ON LINE WITH 700 CFM MUD WT 8.4 SLID 151' = 26.77% 4.88' ABOVE & 0.83' LEFT OF THE LINE

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HOLE ISSUES = LOST CIRCULATION @ 635'

Sundry Number: 53078 API Well Number: 43047532090000 US ROCKIES REGION **Operation Summary Report** Spud Date: 11/16/2013 Well: BONANZA 1023-17K4BS WHITE Project: UTAH-UINTAH Rig Name No: PIONEER 54/54, CAPSTAR 310/310 Site: BONANZA 1023-17G PAD/ROW D **Event: DRILLING** End Date: 4/25/2014 Start Date: 10/14/2013 UWI: SW/NE/0/10/S/23/E/17/0/0/26/PM/N/2483/E/0/1959/0/0 Active Datum: RKB @5,198.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 6:00 - 12:00 6.00 DRLSUR 02 Ρ 1307 В DRILL 11" SURFACE HOLE F/ 1.297' TO 1.920'. 623' @ 103.8 FPH WOB = 15 TO 20K ROTARY RPM = 60 / MUD MOTOR RPM = 96 / TOTAL = 155 PUMPING 458 GPM @ 140 SPM STAND PIPE PRESSURE ON/OFF = 830/710 TORQUE ON/OFF = 2,730/1,250 PU = 90 / SO = 76 / ROT = 82 PEAK ON LINE ARCHER ON LINE WITH 500 CFM MUD WT 8.4 SLID 17' = 2.58% 6.36' ABOVE & 1.42' LEFT OF THE LINE HOLE ISSUES = LOST CIRCULATION @ 635' 12:00 - 15:00 3.00 **DRLSUR** 02 В 1930 DRILL 11" SURFACE HOLE F/ 1,920' TO 2,165', 245' @ 81.6 FPH WOB = 15 TO 20K ROTARY RPM = 60 / MUD MOTOR RPM = 96 / TOTAL PUMPING 491 GPM @ 150 SPM STAND PIPE PRESSURE ON/OFF = 930/730 TORQUE ON/OFF = 2,820/1,250 PU = 92 / SO = 78 / ROT = 85 PEAK ON LINE ARCHER ON LINE WITH 500 CFM MUD WT 8.4 SLID 61' = 23.8% 2.75' ABOVE & 3.5' LEFT OF THE LINE HOLE ISSUES = LOST CIRCULATION @ 635' 15:00 - 17:00 2.00 **DRLSUR** 2175 05 CIRCULATE AND CONDITION HOLE / RETURNS AT SHAKER CLEAN / 1 - 400 BBL UPRIGHT FULL - 5 -400 BBL UPRIGHTS EMPTY / SPOT 80 BBL 10.5# MUD ON BOTTOM - MUD FROM MUD PLANT, SAVED 4 HRS RIG TIME 17:00 - 19:30 2.50 **DRLSUR** 06 D 2175 LAY DOWN DRILL PIPE AND BHA 19:30 - 21:00 1.50 **CSGSUR** 12 Ρ 2175 PREJOB SAFETY WITH RIG CREW. RAN 48 JTS OF 8 5/8", 28#, J-55, LT&C CASING WITH CTE FLOAT GUIDE SHOE AND BAFFLE PLATE LOCATED 1 JOINT ABOVE THE SHOE. 5 CENTRALIZERS SPACED 10' ABOVE THE SHOE, 2ND & 3RD COLLARS, AND EVERY THIRD COLLAR TO 1,778'. LANDED CASING SHOE AT 2,135'. BAFFLE PLATE @ 2,089'

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21:00 - 22:00

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CIRCULATE CASING WITH RIG PUMP

Sundry Number: 53078 API Well Number: 43047532090000 US ROCKIES REGION **Operation Summary Report** Well: BONANZA 1023-17K4BS WHITE Spud Date: 11/16/2013 Project: UTAH-UINTAH Site: BONANZA 1023-17G PAD/ROW D Rig Name No: PIONEER 54/54, CAPSTAR 310/310 **Event: DRILLING** End Date: 4/25/2014 Start Date: 10/14/2013 UWI: SW/NE/0/10/S/23/E/17/0/0/26/PM/N/2483/E/0/1959/0/0 Active Datum: RKB @5,198.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 22:00 - 0:00 2.00 **CSGSUR** 12 Ρ 2175 Ε PREJOB SAFETY MEETING WITH PRO PETRO CEMENTERS & RIG CREW. RAN 200' OF 1" PIPE DOWN BACKSIDE OF CASING TESTED LINES TO 2000 PSI PUMPED 120 BBLS FRESH WATER CLEARING SHOE MIXED AND PUMPED 20 BBL GELLED WATER FLUSH AHEAD OF CEMENT MIXED AND PUMPED 300 SX OF PREMIUM CEMENT WITH 2% CACL2 & 1/4 LB/SX FLOCELE. 61.4 BBL OF SLURRY MIXED @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. DROP PLUG ON FLY. DISPLACE CEMENT WIITH 130.3 BBL FRESH WATER. NO RETURNS THROUGH OUT DISPLACEMENT. FINAL LIFT OF 275 PSI @ 4 BBL/MINUTE. BUMP PLUG WITH 575 PSI. HELD 575 PSI FOR 5 MINUTES. CHECK FLOAT. FLOAT HELD. TOP JOB # 1: PUMP CEMENT DOWN 1" PIPE WITH 150 SX PREMIUM CEMENT WITH 4% CACL2, 2% GR-3, & 1/4 LB/SX FLOCELE. 30.7 BBL OF SLURRY MIXED @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO **RETURNS** RELEASE RIG @ 23:59, 11/17/2013 WAIT ON CEMENT 3.5 HRS TOP JOB # 2: CEMENT DOWN BACK SIDE WITH 200 SX PREMIUM CEMENT WITH 4% CACL2, 2% GR-3, & 1/4 LB/SX FLOCELE. 40.9 BBL OF SLURRY MIXED @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. HOLE FILLED AND STOOD FULL. RELEASE CEMENTERS @ 04:00, 11/18/2013. 14:00 - 14:30 4/21/2014 0.50 MIRU3 01 C Р 2175 SKID RIG. CENTER OVER HOLE AND LEVEL 14:30 - 15:00 0.50 **PRPSPD** 14 Α Р 2175 NU BOP, CHOKE LINE, AND FLOW LINE 15:00 - 18:30 3.50 **PRPSPD** 15 Ρ 2175 HELD SAFETY MEETING WITH RIG CREW & B&C QUICK TEST, TEST BOP, TEST PIPE RAMS, BLIND RAMS, INNER-OUTER BOP VALVES, CHOKE VALVES, TESTED LOW PRESSURE OF 250 PSI FOR 5 MINUTES, TESTED HIGH PRESSURE OF 5000 FOR 10 MINUTES, ANNULAR TEST - 5 MIN @ 250 PSI (LOW) - 10 MIN AT 2500 PSI (HIGH), TEST CASING TO 1500 PSI FOR 30 MIN 18:30 - 19:00 0.50 PRPSPD 14 В 2175 INSTALL WEAR BUSHING 19:00 - 21:30 **PRPSPD** 2.50 06 Α Р 2175 PU DIRECTIONAL BHA, ORIENT AND SCRIBE. TIH TO 21:30 - 23:00 1.50 **PRPSPD** Ρ 2175 SLIP AND CUT DRILL LINE 09 Α 23:00 - 0:00 С 1.00 **PRPSPD** 07 P 2175 CHANGE OUT SAVER SUB 4/22/2014 0:00 - 1:00 1.00 **PRPSPD** Ρ 2175 TIH WITH BHA 06 Α 1:00 - 2:30 1.50 **DRLPRC** F Ρ 2175 TAG CEMENT @ 2020', DRILL CEMENT, PLUG, AND SHOE. 40 RPM, 5-10 WOB

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Sundry Number: 53078 API Well Number: 43047532090000 US ROCKIES REGION **Operation Summary Report** Well: BONANZA 1023-17K4BS WHITE Spud Date: 11/16/2013 Project: UTAH-UINTAH Site: BONANZA 1023-17G PAD/ROW D Rig Name No: PIONEER 54/54, CAPSTAR 310/310 **Event: DRILLING** End Date: 4/25/2014 Start Date: 10/14/2013 UWI: SW/NE/0/10/S/23/E/17/0/0/26/PM/N/2483/E/0/1959/0/0 Active Datum: RKB @5,198.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 2:30 - 8:00 5.50 DRLPRC 02 Ρ 2175 D CLOSED LOOP SYSTEM DRILL F/2175' T/2928' = 753' @ 137 FT/HR WOB 12-25 RPM TOP DRIVE 60-70 (2 PUMPS) - SPM 200 GPM 586 MW 8.5 PPG VIS 28 TRQ ON/OFF = 8300/3500 PSI ON/OFF 1400 - 1050 PU-SO-RT = 110-75-85 SLIDE 119' = 15.80% @ 1.33 HRS ROT 634' = 84.20% @ 4.33 HRS SEEPAGE 5-10 BBLS HR NOV DEWATERING 8:00 - 8:30 0.50 **DRLPRC** 2928 **RIG SERVICE** 8:30 - 16:00 Р 7.50 DRLPRC 02 D 2928 CLOSED LOOP SYSTEM DRILL F/2928' T/3880' = 952' @ 127 FT/HR WOB 12-25 RPM TOP DRIVE 60-70 (2 PUMPS) - SPM 200 GPM 586 MW 8.6 PPG VIS 30 TRQ ON/OFF = 9700/5500 PSI ON/OFF 1600 - 1200 PU-SO-RT = 150-85-110 SLIDE 148' = 31% @ 2.42. HRS ROT 804' = 69% @ 5.17 HRS SEEPAGE 5-10 BBLS HR NOV DEWATERING 16:00 - 0:00 8.00 DRLPRC 02 D 3880 CLOSED LOOP SYSTEM DRILL F/3880' T/4706' = 826' @ 103 FT/HR WOB 16-30 RPM TOP DRIVE 60-70 (2 PUMPS) - SPM 200 GPM 586 MW 8.7 PPG VIS 31 TRQ ON/OFF = 11500 / 7500 PSI ON/OFF 1700 - 1300 PU-SO-RT = 170-78-121 SLIDE 123' = 23% @ 1.83 HRS ROT 703' = 77% @ 6 HRS SEEPAGE 5-10 BBLS HR NOV DEWATERING 4/23/2014 0:00 - 8:00 8.00 **DRLPRV** 02 В Ρ 4706 CLOSED LOOP SYSTEM DRILL F/ 4706 TO 5494', 788' @ 98.5' PH WOB 22-24 RPM TOP DRIVE 60-70 (2 PUMPS) - SPM 200 GPM 586 MW 8.7 PPG VIS 30 TRQ ON/OFF = 11300/9600 K PSI ON/OFF 1500 - 1050 PU-SO-RT = 150-91-115 1.12' Right / 11' High of plan 15' NORTH 9' WEST OF CENTER TARGET SLIDE 30' = 7% @ .58 HRS ROT 758' = 93% @ 7.17 HRS NOV DEWATER 10 BBLS HR SEEPAGE

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Sundry Number: 53078 API Well Number: 43047532090000 US ROCKIES REGION **Operation Summary Report** Spud Date: 11/16/2013 Well: BONANZA 1023-17K4BS WHITE Project: UTAH-UINTAH Rig Name No: PIONEER 54/54, CAPSTAR 310/310 Site: BONANZA 1023-17G PAD/ROW D **Event: DRILLING** End Date: 4/25/2014 Start Date: 10/14/2013 UWI: SW/NE/0/10/S/23/E/17/0/0/26/PM/N/2483/E/0/1959/0/0 Active Datum: RKB @5,198.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 8:00 - 12:30 4.50 **DRLPRV** 02 В Ρ 5494 CLOSED LOOP SYSTEM DRILL F/ 5494 TO 5968', 474' @ 105.3' PH WOB 22-24 RPM TOP DRIVE 60-70 (2 PUMPS) - SPM 200 GPM 586 MW 8.7 PPG VIS 30 TRQ ON/OFF = 11300/9600 K PSI ON/OFF 1500 - 1050 PU-SO-RT = 170-98-133 11' NORTH / 7 WEST OF CENTER TARGET SLIDE 15' = 6% @ .33 HRS ROT 459' = 94% @ 4.5 HRS NOV DEWATER 10 BBLS HR SEEPAGE 12:30 - 13:00 0.50 DRLPRV 5968 07 SERVICE RIG 13:00 - 0:00 11.00 **DRLPRV** В 5968 02 CLOSED LOOP SYSTEM DRILL F/ 5968' TO 7252', 1284' @ 116.7' PH WOB 25 RPM TOP DRIVE 60-70 (2 PUMPS) - SPM 200 GPM 586 MW 8.7 PPG VIS 30 TRQ ON/OFF = 11300/9600 K PSI ON/OFF 1500 - 1050 PU-SO-RT = 150-91-115 5.25' WEST / 13' NORTH SLIDE 17' = 2.14% @ .50 HRS ROT 777' = 97.86% @ 6.67 HRS **NOV DEWATER** 10 BBLS HR SEEPAGE 4/24/2014 0:00 - 8:00 7252 8.00 **DRLPRV** 02 В CLOSED LOOP SYSTEM DRILL F/ 7252' TO 7868', 616' @ 77' PH WOB 25 RPM TOP DRIVE 60-70 (2 PUMPS) - SPM 160 GPM426 MW 11.5 PPG VIS 37 TRQ ON/OFF =16000/12000 K PSI ON/OFF 1800-1400 PU-SO-RT = 150-91-115 2.25' EAST / 10.29' NORTH OF TARGET CENTER SLIDE 0' = 0% @ 0 HRS ROT 617' = 100% @ 8 HRS NOV BYPASS

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10 BBLS HR SEEPAGE

Sundry Number: 53078 API Well Number: 43047532090000 US ROCKIES REGION **Operation Summary Report** Well: BONANZA 1023-17K4BS WHITE Spud Date: 11/16/2013 Project: UTAH-UINTAH Site: BONANZA 1023-17G PAD/ROW D Rig Name No: PIONEER 54/54, CAPSTAR 310/310 **Event: DRILLING** End Date: 4/25/2014 Start Date: 10/14/2013 UWI: SW/NE/0/10/S/23/E/17/0/0/26/PM/N/2483/E/0/1959/0/0 Active Datum: RKB @5,198.00usft (above Mean Sea Date P/U Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 8:00 - 16:30 8.50 **DRLPRV** 02 Ρ 7868 В CLOSED LOOP SYSTEM DRILL F/ 7868' TO 8255', 387' @ 45.5' PH WOB 25 RPM TOP DRIVE 60-70 (2 PUMPS) - SPM 170 GPM 498 MW 11.6 PPG VIS 40 TRQ ON/OFF =18000/14000 K PSI ON/OFF 2000-1400 PU-SO-RT =170-110-160 15' EAST / 3.16' NORTH OF TARGET CENTER SLIDE 0' = 0% @ 0 HRS ROT 387' = 100% @ 8.5 HRS **NOV BYPASS** 10 BBLS HR SEEPAGE 16:30 - 17:00 DRLPRV 8255 0.50 07 Α Ρ SERVICE RIG 17:00 - 17:30 0.50 **DRLPRV** С Ρ 8255 CIRC HIGH VIS SWEEP FOR SHORT TRIP 05 17:30 - 19:00 1.50 **DRLPRV** 06 Ε Ρ 8255 SHORT TRIP 10 STANDS, OVER PULL 75-100K OFF **BOTTOM** 19:00 - 20:00 1 00 DRI PRV 05 Р 8255 C CIRC HIGH VIS SWEEP FOR TRIP TO RUN PROD 20:00 - 0:00 4.00 DRLPRV 06 D Р 8255 TRIP OUT OF HOLE TO RUN 4.5" PROD CASING 0:00 - 0:30 Р 8255 4/25/2014 0.50 **DRLPRV** 06 FINISH TRIPPING OUT Α 0:30 - 1:30 1.00 **DRLPRV** 06 Р 8255 L/D DIR TOOLS, MM, BIT Α 1:30 - 2:00 0.50 **CSGPRO** 14 В Р 8255 **PULL WEAR BUSHING** 2:00 - 3:30 8255 1.50 **CSGPRO** 12 Α Р HELD SAFETY MEETING W/ RIG & FRANKS CASING CREWS, R/U TO RUN CASING 3:30 - 9:30 6.00 **CSGPRO** 12 C Р 8255 RUN / 186 TOTAL JOINTS OF CASING, 71 JOINTS OF 4.5"/11.6# HCP-110 LTC + 1 MARKER, 109 JOINTS OF 4.5"/11.6# HCP 110 DQX +1 DQX CROSSOVER, LANDED SHOE @8239 ' / FLOAT COLOR @ 8194' / MVL MARKER @ 6106 ',DQX / X 8 RND X-OVER JOINT @ 5064', LAND CASING WITH 70 K, R/U & CIRC,R/D CASING CREW 9:30 - 11:30 8255 2.00 **CSGPRO** 05 Р CIRC OUT GAS TO CEMENT, 10' FLARE FOR 10 MIN'S 11:30 - 14:30 8255 3 00 **CSGPRO** Р 12 F HELD SAFETY MEETING WITH RIG & CEMENTING CREWS, DROP BOTTOM PLUG, PUMP 5 BBLS THOUGH LINES BEFORE PSI TEST TO FILL, PUMP 20 MORE BBLS SPACER, LEAD 445 SACKS, 10% EXCESS PLII+6%Gel+.6%R-3+.4%SM+.25#/SK CF+5#/SK Kol-Seal+.4%FL-52 YLD 1.98, 12.5 PPG, TAIL 875 SX, 10% EXCESS, 50/50 poz+2%gell+0.55% R-3+10%salt+5#blsf+.75%SMS YLD 1.32 14.3 PPG, SHUT DOWN CLEAN LINE, DROP TOP PLUG & DISPLACE WITH 127 BBLS CLAY FIX WATER, FINALLIFT PRESSURE 2620, BUMP PLUG 500 OVER, @ 3220 HOLD FOR 5 MIN'S BLED OFF PSI,FLOATS HELD,10 BBL CEMENT TO SURFACE, 1.5 BACK TO INVENTORY

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SET PACKOFF

SERVICE RIG

1023-17M4BS WELL 9 OF 9

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14:30 - 15:00

15:00 - 15:30

15:30 - 18:00

0.50

0.50

2.50

CSGPRO

RDMO

RDMO

RECEIVED: Jul. 08, 2014

FLUSH STACK, TRANSFER MUD & WATER, N/D & PREPARE TO SKID 10' TO THE BONANZA

US ROCKIES REGION

General

1.1 Customer Information

| Company | US ROCKIES REGION |
|----------------|-------------------|
| Representative | |
| Address | |

1.2 Well/Wellbore Information

| Well Name BONANZA 1023-17K4BS Wellbore Name BONANZA 1023-17K4BS Report No. 1 Report Date 5/27/2014 Project UTAH-UINTAH Site BONANZA 1023-17G PAD/ROW D Rig Name/No. Fvent COMPLETION Start Date 6/13/2014 COMPLETION Spud Date 11/16/2013 Active Datum RKB @5,198.00usft (above Mean Sea Level) UNI SW/NE/0/10/S/23/E/17/0/026/PM/N/2483/E/0/1959/0/0 Active Datum RKB @5,198.00usft (above Mean Sea Level) | Well | BONANZA 1023-17K4BS WHITE | Wellbore No. | 00 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------|---------------|------------------------------------------|
| Vo. Event Vo. 5/19/2014 Event T1/16/2013 Event SW/NE/0/10/S/23/E/1770/0/26/PM/N/2483/E/0/1959/0/0 Active Datum | Well Name | BONANZA 1023-17K4BS | Wellbore Name | BONANZA 1023-17K4BS |
| Vo. Site Vo. Event 5/19/2014 End Date 11/16/2013 Active Datum SW/NE/01/0S/23/E1/17/0/026/PM/N/2483/E/0/1959/0/0 Active Datum | Report No. | _ | Report Date | 5/27/2014 |
| No. Event 5/19/2014 End Date 11/16/2013 Active Datum SW/NE/0/10/S/23/E/17/0/0/26/PM/N/2483/E/0/1959/0/0 Active Datum | Project | UTAH-UINTAH | Site | BONANZA 1023-17G PAD/ROW D |
| 5/19/2014 End Date 11/16/2013 Active Datum SW/NE/0/10/S/23/E/17/0/0/26/PM/N/2483/E/0/1959/0/0 Active Datum | Rig Name/No. | | Event | COMPLETION |
| 11/16/2013 Active Datum SW/NE/0/10/S/23/E/17/0/0/26/PM/N/2483/E/0/1959/0/0 | Start Date | 5/19/2014 | End Date | 6/13/2014 |
| UWI SW/NE/0/10/S/23/E/17/0/0/26/PM/N/2483/E/0/1959/0/0 | Spud Date | 11/16/2013 | Active Datum | RKB @5,198.00usft (above Mean Sea Level) |
| | IMI | SW/NE/0/10/S/23/E/17/0/0/26/PM/N/2483/E/0/1959/0/0 | | |

1.3 General

| Contractor | Job Method | Supervisor | |
|---------------------|-----------------|------------|--|
| Perforated Assembly | Conveyed Method | | |
| | | | |

Summary

1.5

1.4 Initial Conditions

| Fluid Type | | Fluid Density | Gross Interval | 5,124.0 (usft)-8,131.0 (usft Start Date/Time | 5/27/2014 12:00AM |
|----------------------|---------|--------------------|------------------|----------------------------------------------|-------------------|
| Surface Press | | Estimate Res Press | No. of Intervals | 56 End Date/Time | 5/27/2014 12:00AM |
| TVD Fluid Top | | Fluid Head | Total Shots | 216 Net Perforation Interval | 70.00 (usft) |
| Hydrostatic Press | | Press Difference | Avg Shot Density | 3.09 (shot/ft) Final Surface Pressure | |
| Balance Cond NEUTRAL | NEUTRAL | | | Final Press Date | |

Intervals

RECEIVED: Jul.

2.1 Perforated Interval

08,

2014

July 02, 2014 at 8:27 am

| Date | Formation/ | @TOO | CCL-T | MD Top | CCL-T MD Top MD Base | Shot | Misfires/ Diamete | | Carr Type /Stage No | Carr | Phasing | Phasing Charge Desc / Charge | Charge | Reason | Misrun |
|-------------|------------|--------|--------|---------|----------------------|-----------|-------------------|------------|---------------------|-------|---------|------------------------------|--------|-----------------|--------|
| | Reservoir | (nstt) | S | (nstt) | | Density | Add. Shot | _ | | Size | (0) | Manufacturer | Weight | | |
| | | | (nstt) | | | (shot/ft) | | (ii) | | (in) | | | (gram) | | |
| 5/27/2014 W | WASATCH/ | | | 5,124.0 | 5,125.0 | 4.00 | | 0.410 EXP/ | EXP/ | 3.125 | 90.00 | | 19.00 | 19.00 PRODUCTIO | |
| 12:00AM | | | | | | | | | | | | | | z | |
| | | | | | | | | | | | | | | | |

2.1 Perforated Interval (Continued)

| Misrun | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------|
| Reason | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO N | 19.00 PRODUCTIO |
| Charge Weight (gram) | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 |
| Charge Desc /Charge Manufacturer | | | | | | | | | | | | | | | | | | | | | |
| Phasing (°) | 90.00 | 90.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 |
| Carr Size (in) | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 |
| Diamete Carr Type /Stage No r (in) | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ | 0.410 EXP/ |
| Misfires/ Add. Shot | | | | | | | | | | | | | | | | | | | | | |
| Shot Density (shot/ft) | | 4.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| MD Base (usft) | 5,192.0 | 5,354.0 | 5,553.0 | 5,654.0 | 5,662.0 | 5,676.0 | 5,750.0 | 5,780.0 | 6,836.0 | 6,848.0 | 6,890.0 | 6,903.0 | 6,911.0 | 6,920.0 | 6,933.0 | 7,020.0 | 7,032.0 | 7,042.0 | 7,054.0 | 7,068.0 | 7,077.0 |
| MD Top (usft) | 5,190.0 | 5,351.0 | 5,552.0 | 5,653.0 | 5,661.0 | 5,675.0 | 5,748.0 | 5,778.0 | 6,835.0 | 6,847.0 | 6,889.0 | 6,902.0 | 6,910.0 | 6,919.0 | 6,931.0 | 7,019.0 | 7,031.0 | 7,041.0 | 7,053.0 | 7,067.0 | 7,076.0 |
| CCL-T S (usft) | | | | | | | | | | | | | | | | | | | | | |
| (Jsn) | | | | | | | | | | | | | | | | | | | | | |
| Formation/ Reservoir | WASATCH/ | WASATCH/ | WASATCH/ | WASATCH/ | WASATCH/ | WASATCH/ | WASATCH/ | WASATCH/ | MESAVERDE/ | MESAVERDE/ |
| Date | 5/27/2014 \ 12:00AM | 4 | 4 | 5/27/2014 N | 5/27/2014 N | 5/27/2014 N | 5/27/2014 \ 12:00AM | 5/27/2014 N | 5/27/2014 I | |

OpenWells

Perforated Interval (Continued)

2.1

| Date | Formation/ Reservoir | (nsft) | CCL-T S (usft) | MD Top (usft) | MD Base (usft) | Shot Density (shot/ft) | Misfires/ Add. Shot | Diamete r (in) | Carr Type /Stage No | Carr Size (in) | Phasing (°) | Charge Desc /Charge Manufacturer | Charge Reason Weight (gram) | son Misrun |
|----------------------|-------------------------|--------|----------------------|------------------|-------------------|------------------------------|------------------------|----------------|---------------------|----------------------|-------------|-------------------------------------|-----------------------------------|------------|
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,114.0 | 7,116.0 | 3.00 | | 110 | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO N | CTIO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,156.0 | 7,157.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO N | CTIO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,163.0 | 7,164.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO | CTIO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,182.0 | 7,183.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO N | CTIO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,205.0 | 7,206.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO | CTIO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,245.0 | 7,246.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO N | OTIO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,260.0 | 7,261.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO N | OTIO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,274.0 | 7,275.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO | OTTO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,284.0 | 7,285.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO N | OTTO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,367.0 | 7,368.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO | CTIO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,377.0 | 7,378.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO N | CTIO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,386.0 | 7,387.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO | CTIO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,399.0 | 7,400.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO N | CTIO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,424.0 | 7,425.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO N | CTIO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,433.0 | 7,434.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO N | CTIO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,440.0 | 7,441.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO | CTIO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,451.0 | 7,452.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO | CTIO |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,483.0 | 7,484.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO N | ОТЮ |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,496.0 | 7,497.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO | СТЮ |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,505.0 | 7,506.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO | СТЮ |
| 5/27/2014 12:00AM | MESAVERDE/ | | | 7,518.0 | 7,520.0 | 3.00 | | 0.410 EXP/ | EXP/ | 3.125 | 120.00 | | 19.00 PRODUCTIO N | СПО |

July 02, 2014 at 8:27 am

OpenWells

2.1 Perforated Interval (Continued)

| Misrun | | | | | | | | | | | | | |
|-------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Reason | 19.00 PRODUCTIO N |
| Charge Weight (gram) | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 |
| Charge Desc /Charge Manufacturer | | | | | | | | | | | | | |
| Phasing (°) | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 | 120.00 |
| Carr Size (in) | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 | 3.125 |
| e Carr Type /Stage No | 0.410 EXP/ |
| Dia) | 0.47 | ,4.0 | 74.0 | 0.4, | 0.4 | ,4.0 | 0.4, | 0.4, | , 1 0.4 | ,4.0 | 0.4, | 0.4 | 0.4, |
| Misfires/ Add. Shot | | | | | | | | | | | | | |
| Shot Density (shot/ft) | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| MD Base (usft) | 7,568.0 | 7,580.0 | 7,652.0 | 7,693.0 | 7,717.0 | 7,735.0 | 7,747.0 | 7,759.0 | 7,780.0 | 7,867.0 | 7,894.0 | 7,948.0 | 8,131.0 |
| MD Top (usft) | 7,567.0 | 7,578.0 | 7,651.0 | 7,692.0 | 7,716.0 | 7,734.0 | 7,746.0 | 7,758.0 | 7,778.0 | 7,866.0 | 7,892.0 | 7,946.0 | 8,128.0 |
| CCL-T S (usft) | | | | | | | | | | | | | |
| (nsft) | | | | | | | | | | | | | |
| Formation/ Reservoir | MESAVERDE/ |
| Date | 5/27/2014 12:00AM |

Plots

July 02, 2014 at 8:27 am

OpenWells

| | | | | U | S ROC | KIES R | EGION | |
|---------------------------|---------------------|------------------|------------|------------|------------------------|-----------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | Opera | tion S | umma | ary Report | |
| Well: BONANZA | . 1023-17K4BS WHIT | E | | | | | Spud Date: 11 | /16/2013 |
| Project: UTAH-U | INTAH | | Site: BON | NANZA 10 | Rig Name No: MILES 3/3 | | | |
| Event: COMPLE | TION | | Start Date | e: 5/19/20 |)14 | | | End Date: 6/13/2014 |
| Active Datum: R Level) | KB @5,198.00usft (a | bove Mean S | ea | UWI: SV | N/NE/0/1 | 0/S/23/E/ | 17/0/0/26/PM/N/2 | 2483/E/0/1959/0/0 |
| Date | Time Start-End | Duration (hr) | Phase | Code | Sub Code | P/U | MD From (usft) | Operation |
| 5/7/2014 | - | | | | | | | |
| 5/19/2014 | 10:00 - 11:00 | 1.00 | SUBSPR | 52 | В | P | | FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST -66 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 530 PSI HELD FOR 5 MIN LOST -81 PSI, BLED PSI OFF, REINSTALLED POP OFF SWIFN NO PRESSURE ON SURFACE CASING FILLED SURFACE WITH 2 BBLS H2O |
| 5/23/2014 | 9:30 - 10:30 | 1.00 | SUBSPR | 37 | | Р | | PERF STG 1)PU 3 1/8 EXP GUN, 19 GM, .40 HOLE SIZE. RIH PERFWELL, AS PER PERF DESIGN. POOH. SWIFW |
| 5/27/2014 | 6:00 - 6:15 | 0.25 | FRAC | 48 | | Р | | HSM-JSA |
| | 6:15 - 18:00 | 11.75 | FRAC | 36 | Н | Р | | FRAC STG #1) WHP 1756 PSI, BRK 3731 PSI @ 4.6 BPM. ISIP 2512 PSI, FG. 0.75 ISIP 2401 PSI, FG. 0.74, NPI -111 PSI, X/O TO WL. SET CBP & PERF STG #2 AS DESIGNED, X/O TO FRAC. FRAC STG #2) WHP 1446 PSI, BRK 5030 PSI @ 6.1 BPM. ISIP 2398 PSI, FG. 0.75 ISIP 2563 PSI, FG. 77, NPI 165 PSI, X/O TO WL. |
| | | | | | | | | SET CBP & PERF STG #3 AS DESIGNED, X/O TO FRAC. FRAC STG #3) WHP 2134 PSI, BRK 3410 PSI @ 5.1 BPM. ISIP 2476 PSI, FG. 0.77 ISIP 2511 PSI, FG. 0.77, NPI 35 PSI, X/O TO WL. SET CBP & PERF STG #4 AS DESIGNED, SWI, SDFN. |
| 5/28/2014 | 6:15 - 6:30 | 0.25 | FRAC | 48 | | Р | | HSM-JSA |
| | 6:30 - 10:15 | 3.75 | FRAC | 36 | Н | Р | | FRAC STG #4) WHP 1962 PSI, BRK 3905 PSI @ 5.5 BPM. ISIP 2210 PSI, FG. 0.74 ISIP 2625 PSI, FG. 0.79, NPI 415 PSI, X/O TO WL. |
| | 10:15 - 10:45 | 0.50 | FRAC | 46 | E | Z | | GO THROUGH PUMP |

7/2/2014 8:30:12AM 1

| FIRST ATTEMPT PLUG DIDN'T SET, SWI, SDFN. 6:30 - 6:30 0 25 FRAC 48 P HSM-JSA 6:30 - 19:00 12:50 FRAC 36 H P FRAC STC #6) WHP 1500 PSI, BRK 3348 PSI @ 5.7 BPM. ISIP 2066 PSI, FG. 0.73 ISIP 2222 PSI, FG. 0.75, NP1 156 PSI, X/O TO WL. SET CBP & PERF STG #7 AS DESIGNED, X/O TO FRAC. FRAC STC #7) WHP 1177 PSI, BRK 2578 PSI @ 5.5 BPM. ISIP 1896 PSI, FG. 0.71 ISIP 2223 PSI, FG. 0.76, NP1 327 PSI, X/O TO WL. SET CBP & PERF STG #8 AS DESIGNED, X/O TO FRAC. FRAC STG #8) WHP 1144 PSI, BRK 2502 PSI @ 4.1 BPM. ISIP 1176 PSI, FG. 0.65 ISIP 1704 PSI, FG. 0.74, NP1 528 PSI, X/O TO WL. SET CBP & PERF STG #9 AS DESIGNED, X/O TO FRAC. FRAC STG #9) WHP 808 PSI, BRK 2685 PSI @ 3.3 BPM. ISIP 1216 PSI, FG. 0.67 ISIP 1432 PSI, FG. 0.71, NP1 216 PSI, X/O TO WL. SET KILL PLUG, RDMO WL & FRAC EQUIP. TOTAL FLUID- 9655 BBLS TOTAL SAND- 214084 LBS 7:30 - 15:00 7.50 DRLOUT 48 P BMRU, NDWH, NU BOP'S, TEST BOP'S, 3000#, PU SN, BIT, POBS, THI TO KILL PLUG, 5055°, 159 JTS, RU PWR SWIVEL, REPLACE SEALS ON UPPER RAMS RETEST BOP'S 3000#, SWIFN | Sundry | Number: ' | 53078 | APT We | 71 L | Iumbe | r: 4 | 30475320 | 090000 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|--------------|-----------|----------|-----------|-----------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Well: BONANZA 1023-17K4BS WHITE | - | | | | U | S ROC | KIES R | EGION | |
| Well: BONANZA 1023-17K4BS WHITE | | | | | Onors | tion S | Rumm | ary Poport | |
| Project: UTAH-JUNTAH | | | | | Opera | | Julilli | | |
| Supplement Sup | | | Cita: DON | 100170 40 | 202 470 | DAD/DOL | <u> </u> | | |
| Activa Datum: RKB @5.198.00ust (above Mean Sea UW: SWINEO/10/S/23/E/17/0/026/PMN/2483/E/0/1959/0/0 | • | | | | | | PAD/ROV | V D | |
| Date Time | | | novo Moon Co | - | | | 0/S/23/E | /17/0/0/26/PM/N/2 | |
| Start-End (th) | | (Al | oove Mean Se | a | OVVI. OV | W/14L/O/1 | 0/0/20/2/ | 1770/0/20/1 10//14/2 | 400/2/0/1909/0/0 |
| FRAC. FRAC STG #5) WHP 1912 PSI, BRK 6202 PSI @ 4 BPM. ISIP 2146 PSI, FG. 0.73, ISIP 2126 PSI, FG. 0.73, NPI-20 PSI, Xo TO WL. SET CBP & PERF STG #6 AS DESIGNED, MISRUN ON FIRST ATTEMPT PLUG DIDN'T SET, SWI, SDFN. 6:30 - 19:00 12:50 FRAC 48 P HSM-JSA 6:30 - 19:00 12:50 FRAC 36 H P FRAC STG #6) WHP 1500 PSI, BRK 3348 PSI @ 5.7 BPM. ISIP 2066 PSI, FG. 0.73 ISIP 2222 PSI, FG. 0.75, NPI 156 PSI, XO TO WL. SET CBP & PERF STG #7 AS DESIGNED, XIO TO FRAC. FRAC STG #7) WHP 1177 PSI, BRK 2578 PSI @ 5.5 BPM. ISIP 1898 PSI, FG. 0.71 ISIP 2223 PSI, FG. 0.76, NPI 327 PSI, XVO TO WL. SET CBP & PERF STG #8 AS DESIGNED, XIO TO FRAC. FRAC STG #8) WHP 1144 PSI, BRK 2502 PSI @ 4.1 BPM. ISIP 1176 PSI, FG. 0.07, NPI 528 PSI, XVO TO WL. SET CBP & PERF STG #8 AS DESIGNED, XIO TO FRAC. FRAC STG #9) WHP 808 PSI, BRK 2685 PSI @ 3.3 BPM. ISIP 1216 PSI, FG. 0.07 ISIP 1212 PSI, FG. 0.71, NPI 216 PSI, XVO TO WL. SET CBP & PERF STG #8 AS DESIGNED, XIO TO FRAC. FRAC STG #9) WHP 808 PSI, BRK 2685 PSI @ 3.3 BPM. ISIP 1216 PSI, FG. 0.07 ISIP 1432 PSI, FG. 0.71, NPI 216 PSI, XVO TO WL. SET CBP & PERF STG #8 AS DESIGNED, XIO TO FRAC. FRAC STG #9) WHP 808 PSI, BRK 2685 PSI @ 3.3 BPM. ISIP 1216 PSI, FG. 0.07 ISIP 1432 PSI, FG. 0.71, NPI 216 PSI, XVO TO WL. SET CBP & PERF STG #9 AS DESIGNED, XIO TO FRAC. FRAC STG #9) WHP 808 PSI, BRK 2685 PSI @ 3.3 BPM. ISIP 1216 PSI, YGO TO WL. SET CBP & PERF STG #9 AS DESIGNED, XIO TO FRAC. FRAC STG #9) WHP 808 PSI, BRK 2685 PSI @ 3.3 BPM. ISIP 1216 PSI, YGO TO WL. SET CBP & PERF STG #9 AS DESIGNED, XIO TO FRAC. FRAC STG #9 WHP 808 PSI, BRK 2685 PSI @ 0.31 BPM. ISIP 1216 PSI, YGO TO WL. SET CBP & PERF STG #9 AS DESIGNED, XIO TO FRAC. FRAC STG #9 WHP 808 PSI, BRK 2685 PSI @ 0.31 BPM. ISIP 1216 PSI, YGO TO WL. SET CBP & PERF STG #9 AS DESIGNED, XIO TO FRAC. FRAC STG #9 WHP 808 PSI, BRK 2685 PSI @ 0.31 BPM. ISIP 1216 PSI, YGO TO WL. SET CBP & PERF STG #9 AS DESIGNED, XIO TO FRAC. FRAC STG #9 WHP 808 PSI, BRK 2685 PSI @ 0.71 NPI 216 PSI, YGO TO WL. SET CBP & PERF STG #9 AS DESIGNED, XIO TO BPM | Date | | | Phase | Code | | P/U | | Operation |
| 6:19 - 6:30 | | 10:45 - 17:30 | 6.75 | FRAC | 36 | Н | Р | | FRAC. FRAC STG #5) WHP 1912 PSI, BRK 6202 PSI @ 4 BPM. ISIP 2146 PSI, FG. 0.74 ISIP 2126 PSI, FG. 0.73, NPI -20 PSI, X/O TO WL. SET CBP & PERF STG #6 AS DESIGNED, MISRUN ON |
| 6:30 - 19:00 12:50 FRAC 36 H P FRAC STG #6) WHP 1500 PSI, BRK 3348 PSI @ 5.7 BPM. ISIP 2066 PSI, FG. 0.73 ISIP 2222 PSI, FG. 0.75, NPI 156 PSI, X/O TO WL. SET CBP & PERF STG #7 AS DESIGNED, X/O TO FRAC. FRAC STG #7) WHP 1177 PSI, BRK 2578 PSI @ 5.5 BPM. ISIP 1986 PSI, FG. 0.71 ISIP 2223 PSI, FG. 0.76, NPI 327 PSI, X/O TO WL. SET CBP & PERF STG #8 AS DESIGNED, X/O TO FRAC. FRAC STG #8) WHP 1144 PSI, BRK 2502 PSI @ 4.1 BPM. ISIP 176 PSI, FG. 0.55 ISIP 1704 PSI, FG. 0.74, NPI 528 PSI, X/O TO WL. SET CBP & PERF STG #9 AS DESIGNED, X/O TO FRAC. FRAC STG #9) WHP 808 PSI, BRK 2502 PSI @ 4.1 BPM. ISIP 1216 PSI, X/O TO WL. SET CBP & PERF STG #9 AS DESIGNED, X/O TO FRAC. FRAC STG #9) WHP 808 PSI, BRK 2502 PSI @ 3.3 BPM. ISIP 1216 PSI, X/O TO WL. SET CBP & PERF STG #9 AS DESIGNED, X/O TO FRAC. FRAC STG #9) WHP 808 PSI, BRK 2685 PSI @ 3.3 BPM. ISIP 1216 PSI, X/O TO WL. SET KILL PLUG, RDMO WL & FRAC EQUIP. TOTAL FLUID- 9655 BBLS TOTAL SAND-214084 LBS 107.30 - 15.00 7.50 DRLOUT 48 P TBG 7:30 - 15.00 7.50 DRLOUT 31 I P MIRU, NDWH, NU BOP'S, TEST BOP'S, 3000#, PU SN, BIT, POBS. THI TO KILL PLUG, 5055′, 159 JTS, RU PWR SWIVEL, REPLACE SEALS ON UPPER RAMS, RETEST BOP'S 3000#, SWIFN | E /00 /004 4 | 6:15 | 0.05 | FDAC | 40 | | | | |
| FRAC. FRAC STG #7) WHP 1177 PSI, BRK 2578 PSI @ 5.5 BPM. ISIP 1896 PSI, FG. 0.71 ISIP 2223 PSI, FG. 0.76, NPI 327 PSI, X/O TO WL. SET CBP & PERF STG #8 AS DESIGNED, X/O TO FRAC. FRAC STG #8) WHP 1144 PSI, BRK 2502 PSI @ 4.1 BPM. ISIP 1176 PSI, FG. 0.65 ISIP 1704 PSI, FG. 0.74, NPI 528 PSI, X/O TO WL. SET CBP & PERF STG #9 AS DESIGNED, X/O TO FRAC. FRAC STG #9) WHP 808 PSI, BRK 2502 PSI @ 4.1 BPM. ISIP 1176 PSI, FG. 0.67 ISIP 1432 PSI, FG. 0.74, NPI 528 PSI, X/O TO WL. SET CBP & PERF STG #9 AS DESIGNED, X/O TO FRAC. FRAC STG #9) WHP 808 PSI, BRK 2685 PSI @ 3.3 BPM. ISIP 1216 PSI, FG. 0.67 ISIP 1432 PSI, FG. 0.71, NPI 216 PSI, X/O TO WL. SET KILL PLUG, RDMO WL & FRAC EQUIP. TOTAL SAND- 214084 LBS 6/12/2014 7:00 - 7:30 0.50 DRLOUT 48 P TBG MIRU, NDWH, NU BOP'S, TEST BOP'S, 3000#, PU SN, BIT, POBS, TIH TO KILL PLUG, 5055 ', 159 JTS, RU PWR SWIYEL, REPLACE SEALS ON UPPER RAMS, RETEST BOP'S 3000#, SWIFN | 5/29/2014 | | | | | Н | | | FRAC STG #6) WHP 1500 PSI, BRK 3348 PSI @ 5.7 BPM. ISIP 2066 PSI, FG. 0.73 ISIP 2222 PSI, FG. 0.75, |
| NPI 327 PSI, X/O TO WL. SET CBP & PERF STG #8 AS DESIGNED, X/O TO FRAC. FRAC STG #8) WHP 1144 PSI, BRK 2502 PSI @ 4.1 BPM. ISIP 1176 PSI, FG. 0.65 ISIP 1704 PSI, FG. 0.74, NPI 528 PSI, X/O TO WL. SET CBP & PERF STG #9 AS DESIGNED, X/O TO FRAC. FRAC STG #9) WHP 808 PSI, BRK 2685 PSI @ 3.3 BPM. ISIP 1216 PSI, FG. 0.67 ISIP 1432 PSI, FG. 0.71, NPI 216 PSI, X/O TO WL. SET KILL PLUG, RDMO WL & FRAC EQUIP. TOTAL FLUID- 9655 BBLS TOTAL SAND- 214084 LBS 6/12/2014 7:00 - 7:30 0.50 DRLOUT 48 P TBG MIRU, NDWH, NU BOP'S, TEST BOP'S, 3000#, PU SN, BIT, POBS, TIH TO KILL PLUG, 5055', 159 JTS, RU PWR SWIYEL, REPLACE SEALS ON UPPER RAMS, RETEST BOP'S 3000#, SWIFN | | | | | | | | | FRAC. |
| FRAC. FRAC STG #8) WHP 1144 PSI, BRK 2502 PSI @ 4.1 BPM. ISIP 1176 PSI, FG. 0.65 ISIP 1704 PSI, FG. 0.74, NPI 528 PSI, X/O TO WL. SET CBP & PERF STG #9 AS DESIGNED, X/O TO FRAC. FRAC STG #9) WHP 808 PSI, BRK 2685 PSI @ 3.3 BPM. ISIP 1216 PSI, FG. 0.67 ISIP 1432 PSI, FG. 0.71, NPI 216 PSI, X/O TO WL. SET KILL PLUG, RDMO WL & FRAC EQUIP. TOTAL FLUID- 9655 BBLS TOTAL SAND- 214084 LBS 6/12/2014 7:00 - 7:30 0.50 DRLOUT 48 P TBG MIRU, NDWH, NU BOP'S, TEST BOP'S, 3000#, PU SN, BIT, POBS, TIH TO KILL PLUG, 5055', 159 JTS, RU PWR SWIVEL, REPLACE SEALS ON UPPER RAMS, RETEST BOP'S 3000#, SWIFN | | | | | | | | | NPI 327 PSI, X/O TO WL. |
| BPM. ISIP 1176 PSI, FG. 0.65 ISIP 1704 PSI, FG. 0.74, NPI 528 PSI, X/O TO WL. SET CBP & PERF STG #9 AS DESIGNED, X/O TO FRAC. FRAC STG #9) WHP 808 PSI, BRK 2685 PSI @ 3.3 BPM. ISIP 1216 PSI, FG. 0.67 ISIP 1432 PSI, FG. 0.71, NPI 216 PSI, X/O TO WL. SET KILL PLUG, RDMO WL & FRAC EQUIP. TOTAL FLUID- 9655 BBLS TOTAL SAND- 214084 LBS 6/12/2014 7:00 - 7:30 0.50 DRLOUT 48 P TBG 7:30 - 15:00 7.50 DRLOUT 31 I P MIRU, NDWH, NU BOP'S, TEST BOP'S, 3000#, PU SN, BIT, POBS, TIH TO KILL PLUG, 5055', 159 JTS, RU PWR SWIVEL, REPLACE SEALS ON UPPER RAMS, RETEST BOP'S 3000#, SWIFN | | | | | | | | | |
| FRAC. FRAC STG #9) WHP 808 PSI, BRK 2685 PSI @ 3.3 BPM. ISIP 1216 PSI, FG. 0.67 ISIP 1432 PSI, FG. 0.71, NPI 216 PSI, X/O TO WL. SET KILL PLUG, RDMO WL & FRAC EQUIP. TOTAL FLUID- 9655 BBLS TOTAL SAND- 214084 LBS 6/12/2014 7:30 - 7:30 0.50 DRLOUT 48 P TBG 7:30 - 15:00 7.50 DRLOUT 31 I P MIRU, NDWH, NU BOP'S, TEST BOP'S, 3000#, PU SN, BIT, POBS, TIH TO KILL PLUG, 5055', 159 JTS,RU PWR SWIVEL, REPLACE SEALS ON UPPER RAMS,RETEST BOP'S 3000#,SWIFN | | | | | | | | | BPM. ISIP 1176 PSI, FG. 0.65 ISIP 1704 PSI, FG. 0.74, |
| BPM. ISIP 1216 PSI, FG. 0.67 ISIP 1432 PSI, FG. 0.71, NPI 216 PSI, X/O TO WL. SET KILL PLUG, RDMO WL & FRAC EQUIP. TOTAL FLUID- 9655 BBLS TOTAL SAND- 214084 LBS 6/12/2014 7:00 - 7:30 0.50 DRLOUT 48 P TBG 7:30 - 15:00 7.50 DRLOUT 31 I P MIRU, NDWH, NU BOP'S, TEST BOP'S, 3000#, PU SN, BIT, POBS, TIH TO KILL PLUG, 5055', 159 JTS,RU PWR SWIVEL, REPLACE SEALS ON UPPER RAMS,RETEST BOP'S 3000#,SWIFN | | | | | | | | | |
| TOTAL FLUID- 9655 BBLS TOTAL SAND- 214084 LBS 6/12/2014 7:00 - 7:30 0.50 DRLOUT 48 P TBG 7:30 - 15:00 7.50 DRLOUT 31 I P MIRU, NDWH, NU BOP'S, TEST BOP'S, 3000#, PU SN, BIT, POBS, TIH TO KILL PLUG, 5055', 159 JTS,RU PWR SWIVEL, REPLACE SEALS ON UPPER RAMS,RETEST BOP'S 3000#,SWIFN | | | | | | | | | BPM. ISIP 1216 PSI, FG. 0.67 ISIP 1432 PSI, FG. 0.71, |
| TOTAL SAND- 214084 LBS 6/12/2014 7:00 - 7:30 0.50 DRLOUT 48 P 7:30 - 15:00 7.50 DRLOUT 31 I P MIRU, NDWH, NU BOP'S, TEST BOP'S, 3000#, PU SN, BIT, POBS, TIH TO KILL PLUG, 5055', 159 JTS,RU PWR SWIVEL, REPLACE SEALS ON UPPER RAMS,RETEST BOP'S 3000#,SWIFN | | | | | | | | | SET KILL PLUG, RDMO WL & FRAC EQUIP. |
| 6/12/2014 7:00 - 7:30 0.50 DRLOUT 48 P TBG 7:30 - 15:00 7.50 DRLOUT 31 I P MIRU, NDWH, NU BOP'S, TEST BOP'S, 3000#, PU SN, BIT, POBS, TIH TO KILL PLUG, 5055', 159 JTS,RU PWR SWIVEL, REPLACE SEALS ON UPPER RAMS,RETEST BOP'S 3000#,SWIFN | | | | | | | | | |
| BIT, POBS, TIH TO KILL PLUG, 5055', 159 JTS,RU PWR SWIVEL, REPLACE SEALS ON UPPER RAMS,RETEST BOP'S 3000#,SWIFN | 6/12/2014 | 7:00 - 7:30 | 0.50 | DRLOUT | 48 | | Р | | |
| | | 7:30 - 15:00 | 7.50 | DRLOUT | 31 | I | Р | | BIT, POBS, TIH TO KILL PLUG, 5055', 159 JTS,RU PWR SWIVEL, REPLACE SEALS ON UPPER |
| 6/13/2014 7:00 - 7:30 0.50 DRLOUT 48 P MILLING PLUGS | 6/13/2014 | 7:00 - 7:30 | 0.50 | DRI OLIT | 48 | | Р | | |

7/2/2014 8:30:12AM 2

RECEIVED: Jul. 08, 2014

| | | | | U | S ROC | KIES RE | EGION | |
|---------------------|-----------------------|------------------|------------|------------|-------------|------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------|
| | | | | Opera | ation S | umma | ry Report | |
| Vell: BONANZA | A 1023-17K4BS WHIT | E | | | | | Spud Date: 11 | /16/2013 |
| roject: UTAH-L | JINTAH | | Site: BON | IANZA 10 | 023-17G I | PAD/ROW | ' D | Rig Name No: MILES 3/3 |
| vent: COMPLE | TION | | Start Date | e: 5/19/20 | 014 | | | End Date: 6/13/2014 |
| ctive Datum: Revel) | RKB @5,198.00usft (al | bove Mean S | ea | UWI: S\ | W/NE/0/1 | 0/S/23/E/1 | 7/0/0/26/PM/N/2 | 2483/E/0/1959/0/0 |
| Date | Time Start-End | Duration (hr) | Phase | Code | Sub Code | P/U | MD From (usft) | Operation |
| | 7:30 - 15:00 | 7.50 | DRLOUT | 44 | С | Р | | MILL 9 CBP'S, C/O 25' SAND TO 8189', 275 JTS, PU TO 239 JTS 7611.12', LAND TBG, ND BOP'S, NU WH, DROP BALL, POBS, 2100#, RDMO |
| | | | | | | | | PLUG# 1 5074' 5' SAND 5 MIN 300# KICK |
| | | | | | | | | PLUG # 2 5384' 20' SAND 6 MIN 0# KICK |
| | | | | | | | | PLUG# 3 5810' 40' SAND 4 MIN 100# KICK |
| | | | | | | | | PLUG# 4 6960' 30' SAND 8 MIN 600# KICK |
| | | | | | | | | PLUG # 5 7139' 15' SAND 5 MIN 400# KICK |
| | | | | | | | | PLUG# 6 7315' 30' SAND 10 MIN 400# KICK |
| | | | | | | | | PLUG# 7 7472' 25' SAND 6 MIN 500# KICK |
| | | | | | | | | PLUG # 8 7610' 35' SAND 5 MIN 600# KICK |
| | | | | | | | | PLUG# 9 7816' 40' SAND 6 MIN 400# KICK |
| | | | | | | | | PBTD 8189' BTM PERF 8131' |
| | | | | | | | | KB 19.00' HANGER .83' TBG 239 JTS L-80 7589.09" |
| | | | | | | | | S/N 2.20' EOT 7611.12' |
| | | | | | | | | FRAC WTR 9,655 BBLS RCVD 2,200 BBLS |
| | | | | | | | | LTR 7,455 BBLS BJD 0 MCF DURING MILLOUT |

7/2/2014 8:30:12AM 3

Sundry Number: 53078 APPOJet/WelTAHNWITMettet), 4\a0247\text{Zoh202N0000}



Site: BONANZA 1023-17G PAD Well: BONANZA 1023-17K4BS

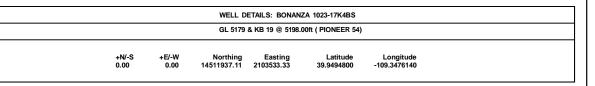
Wellbore: OH Design: OH

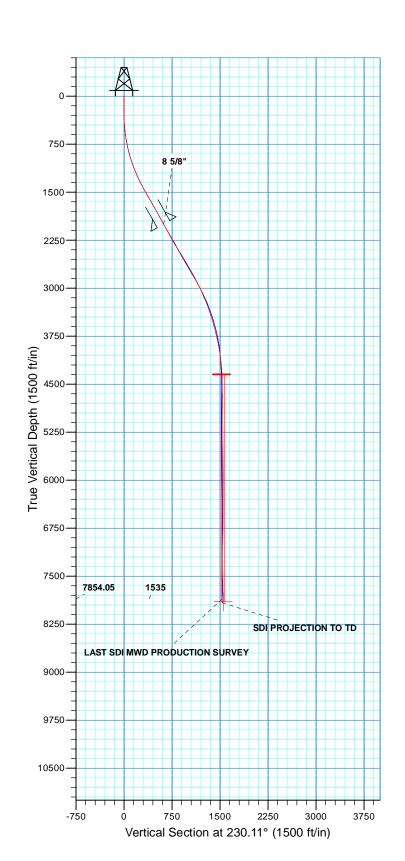


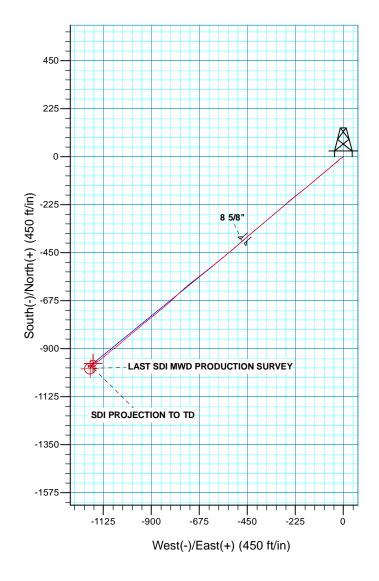
M A

Azimuths to True North Magnetic North: 10.78°

> Magnetic Field Strength: 52006.1snT Dip Angle: 65.78° Date: 10/26/2013 Model: BGGM2013









US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N BONANZA 1023-17G PAD BONANZA 1023-17K4BS

OH

Design: OH

Standard Survey Report

25 April, 2014





Survey Report



US ROCKIES REGION PLANNING Company: Project: UTAH - UTM (feet), NAD27, Zone 12N

BONANZA 1023-17G PAD Site: **BONANZA 1023-17K4BS** Well:

Wellbore: ОН Design: OH

Geo Datum: Map Zone:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well BONANZA 1023-17K4BS

GL 5179 & KB 19 @ 5198.00ft (PIONEER 54) GL 5179 & KB 19 @ 5198.00ft (PIONEER 54)

Minimum Curvature

Database: **Denver Sales**

UTAH - UTM (feet), NAD27, Zone 12N Project

Map System: Universal Transverse Mercator (US Survey Feet)

> NAD 1927 (NADCON CONUS) Zone 12N (114 W to 108 W)

System Datum: Mean Sea Level

Site BONANZA 1023-17G PAD, SECTION 17 T10S R23E

14,512,226.99 usft Northing: Site Position: Latitude: 39.9502600 From: Lat/Long Easting: 2,103,842.82 usft Longitude: -109.3464910 **Position Uncertainty:** 0.00 ft Slot Radius: 13.200 in **Grid Convergence:** 1.06°

Well BONANZA 1023-17K4BS, 2483 FNL 1959 FEL 39.9494800 **Well Position** +N/-S 0.00 ft Northing: 14,511,937.12 usft Latitude: +E/-W 0.00 ft Easting: 2,103,533.33 usft Longitude: -109.3476140 0.00 ft Ground Level: 5,179.00 ft **Position Uncertainty** Wellhead Elevation: ft

ОН Wellbore **Model Name** Declination Dip Angle Field Strength Magnetics Sample Date (°) (°) (nT) BGGM2013 10/26/2013 10.78 65.78 52,006

ОН Design Audit Notes: ACTUAL Version: 1.0 Tie On Depth: 0.00 Phase: **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 230.11

Date 4/25/2014 **Survey Program** From То (ft) Survey (Wellbore) **Tool Name** Description 10.00 2,109.00 Survey #1 SDI MWD SURFACE (OH) SDI MWD SDI MWD - Standard ver 1.0.1 2,201.00 8,255.00 Survey #2 SDI MWD PRODUC TION (OH SDI MWD SDI MWD - Standard ver 1.0.1

| Survey | | | | | | | | | | |
|--------|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-------------------------------|------------------------------|-----------------------------|
| | Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 10.00 | 0.00 | 0.00 | 10.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 196.00 | 0.79 | 219.46 | 195.99 | -0.99 | -0.81 | 1.26 | 0.42 | 0.42 | 0.00 |
| | FIRST SDI M | WD SURFACE S | URVEY | | | | | | | |
| | 286.00 | 1.23 | 239.06 | 285.98 | -1.97 | -2.04 | 2.82 | 0.61 | 0.49 | 21.78 |
| | 377.00 | 1.58 | 239.59 | 376.95 | -3.10 | -3.96 | 5.03 | 0.38 | 0.38 | 0.58 |
| | 454.00 | 2.90 | 238.94 | 453.89 | -4.65 | -6.54 | 8.00 | 1.71 | 1.71 | -0.84 |
| | 549.00 | 5.45 | 233.76 | 548.63 | -8.55 | -12.24 | 14.88 | 2.71 | 2.68 | -5.45 |
| | 644.00 | 8.27 | 230.24 | 642.94 | -15.59 | -21.13 | 26.21 | 3.00 | 2.97 | -3.71 |
| | 739.00 | 10.82 | 229.63 | 736.62 | -25.74 | -33.18 | 41.96 | 2.69 | 2.68 | -0.64 |



Survey Report



US ROCKIES REGION PLANNING Company: Project: UTAH - UTM (feet), NAD27, Zone 12N

Site: BONANZA 1023-17G PAD Well: **BONANZA 1023-17K4BS**

Wellbore: ОН Design: ОН

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:**

GL 5179 & KB 19 @ 5198.00ft (PIONEER 54) GL 5179 & KB 19 @ 5198.00ft (PIONEER 54)

Well BONANZA 1023-17K4BS

Minimum Curvature

Denver Sales Database:

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---------------------------|-----------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-------------------------------|------------------------------|-----------------------------|
| 833.00 | 14.33 | 227.96 | 828.35 | -39.25 | -48.55 | 62.42 | 3.75 | 3.73 | -1.78 |
| 927.00 | 16.00 | 230.33 | 919.08 | -55.31 | -67.16 | 87.00 | 1.89 | 1.78 | 2.52 |
| 1,020.00 | 17.85 | 230.95 | 1,008.04 | -72.47 | -88.10 | 114.07 | 2.00 | 1.99 | 0.67 |
| 1,114.00 | 20.22 | 228.92 | 1,096.90 | -92.23 | -111.53 | 144.72 | 2.62 | 2.52 | -2.16 |
| 1,208.00 | 22.16 | 229.19 | 1,184.54 | -114.49 | -137.20 | 178.69 | 2.07 | 2.06 | 0.29 |
| 1,302.00 | 24.89 | 230.95 | 1,270.72 | -138.54 | -165.98 | 216.20 | 3.00 | 2.90 | 1.87 |
| 1,398.00 | 27.61 | 231.82 | 1,356.81 | -165.02 | -199.17 | 258.65 | 2.86 | 2.83 | 0.91 |
| 1,492.00 | 28.52 | 230.57 | 1,439.76 | -192.74 | -233.62 | 302.86 | 1.15 | 0.97 | -1.33 |
| 1,583.00 | 29.82 | 229.63 | 1,519.22 | -221.20 | -267.64 | 347.21 | 1.51 | 1.43 | -1.03 |
| 1,678.00 | 30.35 | 229.95 | 1,601.42 | -251.94 | -304.01 | 394.83 | 0.58 | 0.56 | 0.34 |
| 1,773.00 | 30.62 | 230.17 | 1,683.28 | -282.88 | -340.96 | 443.03 | 0.31 | 0.28 | 0.23 |
| 1,867.00 | 27.96 | 229.54 | 1,765.26 | -312.52 | -376.12 | 489.01 | 2.85 | -2.83 | -0.67 |
| 1,960.00 | 28.05 | 229.72 | 1,847.37 | -340.80 | -409.39 | 532.68 | 0.13 | 0.10 | 0.19 |
| 2,054.00 | 29.46 | 229.10 | 1,929.78 | -370.23 | -443.72 | 577.89 | 1.53 | 1.50 | -0.66 |
| 2,109.00 | 29.72 | 228.92 | 1,977.60 | -388.04 | -464.22 | 605.05 | 0.50 | 0.47 | -0.33 |
| 2,201.00 | WD SURFACE S 29.46 | 229.75 | 2,057.61 | -417.65 | -498.68 | 650.47 | 0.53 | -0.28 | 0.90 |
| * | IWD PRODUCTION | | 2,007.07 | | .00.00 | 000 | 0.00 | 0.20 | 0.00 |
| 2,296.00 | 28.67 | 230.46 | 2,140.64 | -447.25 | -534.09 | 696.62 | 0.91 | -0.83 | 0.75 |
| 2,391.00 | 28.58 | 229.58 | 2,224.03 | -476.49 | -568.96 | 742.13 | 0.45 | -0.09 | -0.93 |
| 2,486.00 | 30.34 | 231.34 | 2,306.75 | -506.22 | -605.00 | 788.85 | 2.06 | 1.85 | 1.85 |
| 2,581.00 | 31.48 | 232.48 | 2,388.25 | -536.31 | -643.41 | 837.62 | 1.35 | 1.20 | 1.20 |
| 2,676.00 | 32.45 | 232.04 | 2,468.85 | -567.10 | -683.18 | 887.88 | 1.05 | 1.02 | -0.46 |
| 2,771.00 | 33.06 | 230.63 | 2,548.74 | -599.21 | -723.31 | 939.26 | 1.03 | 0.64 | -1.48 |
| 2,866.00 | 29.55 | 227.12 | 2,629.91 | -631.60 | -760.52 | 988.59 | 4.16 | -3.69 | -3.69 |
| 2,961.00 | 29.28 | 226.85 | 2,712.66 | -663.43 | -794.64 | 1,035.17 | 0.32 | -0.28 | -0.28 |
| 3,056.00 | 29.19 | 228.17 | 2,795.56 | -694.77 | -828.85 | 1,081.52 | 0.69 | -0.09 | 1.39 |
| 3,151.00 | 27.00 | 230.81 | 2,879.36 | -723.85 | -862.83 | 1,126.24 | 2.65 | -2.31 | 2.78 |
| 3,246.00 | 26.47 | 231.25 | 2,964.21 | -750.73 | -896.05 | 1,168.98 | 0.60 | -0.56 | 0.46 |
| 3,340.00 | 24.97 | 231.86 | 3,048.89 | -776.10 | -928.00 | 1,209.75 | 1.62 | -1.60 | 0.65 |
| 3,435.00 | 22.25 | 228.79 | 3,135.93 | -800.34 | -957.31 | 1,247.79 | 3.14 | -2.86 | -3.23 |
| 3,530.00 | 22.60 | 230.37 | 3,223.75 | -823.83 | -984.90 | 1,284.02 | 0.73 | 0.37 | 1.66 |
| 3,626.00 | 20.22 | 230.02 | 3,313.12 | -846.26 | -1,011.82 | 1,319.06 | 2.48 | -2.48 | -0.36 |
| 3,720.00 | 17.15 | 227.29 | 3,402.16 | -866.10 | -1,034.46 | 1,349.16 | 3.40 | -3.27 | -2.90 |
| 3,815.00 | 17.06 | 232.57 | 3,492.96 | -884.07 | -1,055.82 | 1,377.07 | 1.64 | -0.09 | 5.56 |
| 3,911.00 | 16.18 | 232.30 | 3,584.95 | -900.81 | -1,077.58 | 1,404.51 | 0.92 | -0.92 | -0.28 |
| 4,006.00 | 13.63 | 228.35 | 3,676.75 | -916.35 | -1,096.42 | 1,428.93 | 2.89 | -2.68 | -4.16 |
| 4,102.00 | 12.84 | 231.42 | 3,770.20 | -930.51 | -1,113.21 | 1,450.90 | 1.10 | -0.82 | 3.20 |
| 4,196.00 | 11.61 | 230.19 | 3,862.06 | -943.08 | -1,128.64 | 1,470.80 | 1.34 | -1.31 | -1.31 |
| 4,291.00 | 9.76 | 234.41 | 3,955.41 | -953.89 | -1,142.54 | 1,488.39 | 2.11 | -1.95 | 4.44 |
| 4,386.00 | 7.74 | 235.73 | 4,049.30 | -962.18 | -1,154.37 | 1,502.79 | 2.14 | -2.13 | 1.39 |
| 4,481.00 | 6.51 | 239.42 | 4,143.57 | -968.52 | -1,164.30 | 1,514.47 | 1.38 | -1.29 | 3.88 |
| 4,575.00 | 4.92 | 246.45 | 4,237.10 | -972.85 | -1,172.58 | 1,523.59 | 1.85 | -1.69 | 7.48 |



Survey Report



Company: US ROCKIES REGION PLANNING

Project: UTAH - UTM (feet), NAD27, Zone 12N

Site: BONANZA 1023-17G PAD Well: BONANZA 1023-17K4BS

Wellbore: OH
Design: OH

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Database:

Well BONANZA 1023-17K4BS

GL 5179 & KB 19 @ 5198.00ft (PIONEER 54) GL 5179 & KB 19 @ 5198.00ft (PIONEER 54)

True

Minimum Curvature

Denver Sales

| Measured | | | Vertical | | | Vertical | Dogleg | Build | Turn |
|---------------|--------------------|----------------|---------------|---------------|---------------|-----------------|---------------------|---------------------|---------------------|
| Depth (ft) | Inclination (°) | Azimuth (°) | Depth (ft) | +N/-S (ft) | +E/-W (ft) | Section (ft) | Rate (°/100usft) | Rate (°/100usft) | Rate (°/100usft) |
| 4,670.00 | 2.46 | 254.54 | 4,331.90 | -975.02 | -1,178.28 | 1,529.36 | 2.64 | -2.59 | 8.52 |
| 4,765.00 | 1.85 | 259.55 | 4,426.83 | -975.84 | -1,181.75 | 1,532.55 | 0.67 | -0.64 | 5.27 |
| 4,860.00 | 1.85 | 250.85 | 4,521.78 | -976.62 | -1,184.71 | 1,535.32 | 0.30 | 0.00 | -9.16 |
| 4,955.00 | 1.76 | 242.94 | 4,616.73 | -977.79 | -1,187.46 | 1,538.18 | 0.28 | -0.09 | -8.33 |
| 5,050.00 | 1.85 | 235.20 | 4,711.69 | -979.33 | -1,190.02 | 1,541.13 | 0.27 | 0.09 | -8.15 |
| 5,146.00 | 1.76 | 297.43 | 4,807.65 | -979.53 | -1,192.60 | 1,543.24 | 1.94 | -0.09 | 64.82 |
| 5,241.00 | 1.58 | 302.35 | 4,902.61 | -978.16 | -1,195.00 | 1,544.20 | 0.24 | -0.19 | 5.18 |
| 5,336.00 | 0.44 | 254.80 | 4,997.59 | -977.55 | -1,196.46 | 1,544.93 | 1.39 | -1.20 | -50.05 |
| 5,430.00 | 0.26 | 211.47 | 5,091.59 | -977.83 | -1,196.92 | 1,545.46 | 0.33 | -0.19 | -46.10 |
| 5,525.00 | 0.62 | 177.02 | 5,186.59 | -978.53 | -1,197.00 | 1,545.98 | 0.45 | 0.38 | -36.26 |
| 5,621.00 | 0.62 | 143.97 | 5,282.58 | -979.47 | -1,196.67 | 1,546.32 | 0.37 | 0.00 | -34.43 |
| 5,716.00 | 0.97 | 140.72 | 5,377.57 | -980.50 | -1,195.86 | 1,546.37 | 0.37 | 0.37 | -3.42 |
| 5,811.00 | 1.14 | 151.09 | 5,472.56 | -981.95 | -1,194.89 | 1,546.55 | 0.27 | 0.18 | 10.92 |
| 5,906.00 | 0.44 | 253.04 | 5,567.55 | -982.89 | -1,194.78 | 1,547.07 | 1.37 | -0.74 | 107.32 |
| 6,001.00 | 0.53 | 188.27 | 5,662.55 | -983.43 | -1,195.20 | 1,547.73 | 0.55 | 0.09 | -68.18 |
| 6,096.00 | 0.53 | 170.34 | 5,757.54 | -984.30 | -1,195.19 | 1,548.28 | 0.17 | 0.00 | -18.87 |
| 6,191.00 | 0.97 | 157.07 | 5,852.53 | -985.47 | -1,194.80 | 1,548.74 | 0.49 | 0.46 | -13.97 |
| 6,287.00 | 1.06 | 163.66 | 5,948.52 | -987.07 | -1,194.23 | 1,549.33 | 0.15 | 0.09 | 6.86 |
| 6,381.00 | 0.18 | 130.17 | 6,042.51 | -988.00 | -1,193.88 | 1,549.65 | 0.97 | -0.94 | -35.63 |
| 6,477.00 | 0.97 | 7.92 | 6,138.51 | -987.29 | -1,193.65 | 1,549.02 | 1.12 | 0.82 | -127.34 |
| 6,572.00 | 0.62 | 20.93 | 6,233.50 | -986.02 | -1,193.35 | 1,547.98 | 0.41 | -0.37 | 13.69 |
| 6,667.00 | 0.62 | 63.55 | 6,328.49 | -985.31 | -1,192.71 | 1,547.03 | 0.47 | 0.00 | 44.86 |
| 6,762.00 | 0.70 | 88.69 | 6,423.49 | -985.06 | -1,191.67 | 1,546.08 | 0.31 | 0.08 | 26.46 |
| 6,857.00 | 0.97 | 335.84 | 6,518.48 | -984.32 | -1,191.42 | 1,545.41 | 1.47 | 0.28 | -118.79 |
| 6,952.00 | 0.88 | 327.05 | 6,613.47 | -982.97 | -1,192.14 | 1,545.10 | 0.18 | -0.09 | -9.25 |
| 7,047.00 | 0.69 | 335.58 | 6,708.46 | -981.84 | -1,192.78 | 1,544.86 | 0.23 | -0.20 | 8.98 |
| 7,142.00 | 0.53 | 334.34 | 6,803.46 | -980.92 | -1,193.20 | 1,544.60 | 0.17 | -0.17 | -1.31 |
| 7,238.00 | 0.61 | 344.82 | 6,899.45 | -980.03 | -1,193.53 | 1,544.28 | 0.14 | 0.08 | 10.92 |
| 7,333.00 | 0.18 | 73.04 | 6,994.45 | -979.50 | -1,193.52 | 1,543.93 | 0.66 | -0.45 | 92.86 |
| 7,426.00 | 0.44 | 152.76 | 7,087.45 | -979.77 | -1,193.22 | 1,543.87 | 0.48 | 0.28 | 85.72 |
| 7,523.00 | 0.88 | 131.14 | 7,184.44 | -980.59 | -1,192.49 | 1,543.84 | 0.51 | 0.45 | -22.29 |
| 7,618.00 | 1.49 | 116.55 | 7,279.42 | -981.62 | -1,190.83 | 1,543.23 | 0.71 | 0.64 | -15.36 |
| 7,713.00 | 1.67 | 117.34 | 7,374.38 | -982.81 | -1,188.50 | 1,542.20 | 0.19 | 0.19 | 0.83 |
| 7,808.00 | 2.06 | 111.56 | 7,469.33 | -984.08 | -1,185.68 | 1,540.85 | 0.46 | 0.41 | -6.08 |
| 7,903.00 | 2.02 | 115.85 | 7,564.27 | -985.43 | -1,182.58 | 1,539.34 | 0.17 | -0.04 | 4.52 |
| 7,998.00 | 2.29 | 119.01 | 7,659.21 | -987.08 | -1,179.42 | 1,537.97 | 0.31 | 0.28 | 3.33 |
| 8,094.00 | 2.20 | 123.49 | 7,755.13 | -989.03 | -1,176.20 | 1,536.75 | 0.21 | -0.09 | 4.67 |
| 8,189.00 | 2.55 | 118.04 | 7,850.05 | -991.03 | -1,172.82 | 1,535.44 | 0.44 | 0.37 | -5.74 |
| 8,193.00 | 2.73 | 116.99 | 7,854.05 | -991.12 | -1,172.65 | 1,535.37 | 4.66 | 4.50 | -26.25 |
| | WD PRODUCTIO | | | | | | | | |
| 8,255.00 | 2.73 | 116.99 | 7,915.98 | -992.46 | -1,170.02 | 1,534.21 | 0.00 | 0.00 | 0.00 |



Survey Report

MD Reference:



US ROCKIES REGION PLANNING Company:

Project: UTAH - UTM (feet), NAD27, Zone 12N

Site: BONANZA 1023-17G PAD Well: **BONANZA 1023-17K4BS**

Wellbore: ОН Design: ОН Local Co-ordinate Reference:

Well BONANZA 1023-17K4BS GL 5179 & KB 19 @ 5198.00ft (PIONEER 54) TVD Reference:

GL 5179 & KB 19 @ 5198.00ft (PIONEER 54)

North Reference:

Minimum Curvature **Survey Calculation Method: Denver Sales** Database:

| Design Targets | | | | | | | | | |
|-----------------------------------------------------------------|------------------|----------------------|---------------------------|--------------------------|----------------------------|------------------------------------|-------------------|------------|--------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| PBHL_ BONANZA 1023 - actual wellpath mis - Circle (radius 25.00 | ses target cen | 0.00 ter by 17.32 | 7,903.00 ft at 8241.31 | -993.93 ft MD (7902.3 | -1,187.82 1 TVD, -992.1 | 14,510,921.36 16 N, -1170.60 E) | 2,102,364.12 | 39.9467510 | -109.3518510 |

| Design Annotations | | | | |
|--------------------|--------------|---------|------------|---------------------------------|
| Measure | d Vertical | Local C | oordinates | |
| Depth | Depth | +N/-S | +E/-W | |
| (ft) | (ft) | (ft) | (ft) | Comment |
| 196 | .00 195.99 | -0.99 | -0.81 | FIRST SDI MWD SURFACE SURVEY |
| 2,109 | .00 1,977.60 | -388.04 | -464.22 | LAST SDI MWD SURFACE SURVEY |
| 2,201 | .00 2,057.61 | -417.65 | -498.68 | FIRST SDI MWD PRODUCTION SURVEY |
| 8,193 | .00 7,854.05 | -991.12 | -1,172.65 | LAST SDI MWD PRODUCTION SURVEY |
| 8,255 | .00 7,915.98 | -992.46 | -1,170.02 | SDI PROJECTION TO TD |

| Checked By: | Approved By: | Date: |
|-------------|--------------|-------|

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